# FY 1990 AND FY 1991 BIENNIAL BUDGET DEPARTMENT OF THE NAVY JUSTIFICATION OF ESTIMATES

Section of the sectio





# SUBMITTED TO CONGRESS JANUARY 1989

OPERATION & MAINTENANCE, NAVY

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BOOK 1 OF 4

BUDGET ACTIVITY 3: INTELLIGENCE & COMMUNICATIONS BUDGET ACTIVITY 2: GENERAL PURPOSE FORCES BUDGET ACTIVITY 4: AIRLIFT AND SEALIFT BUDGET ACTIVITY 1: STRATEGIC FORCES

Marie Control

Department of the Navy Operation and Maintenance, Navy

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# SUMMARY OF REQUIREMENTS BY PROGRAM PACKAGE (IN THOUSANDS)

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BK-BA-1-G	1-1-1	1 - 1 - 19	1-1-29	1-1-35	1-1-52	1-1-60	1-1-67	1-1-73	1-1-77		BK-BA-rG	1-2-10	1-2-13	1-2-23	1-2-32	1-2-60	1-2-65	1-2-65	1-2-93	1-2-100	1-2-166	1-2-111	1-2-116	1-2-11	1-2-1:0	1-2-135		
FY 1991	125,246	938,888	100,134	382,391	101,523	27,605	22,683	38,868	114,235	1,851,573	FY 1991	1,424,243	321,433	1,810,136	4,993,792	96,310	533,724	67,874	433,569	44,535	33,965	97,046	131,950	362,008	1,564,351		11,914,936	
FY 1990	99,520	899,850	98,982	355, 803	86,019	26,580	21,323	34,368	104,201	1,726,646	FY 1990	1,401,880	320,770	1,820,969	4,850,296	92,139	483,770	65, 455	438,917	42,343	31,958	96,359	115,888	348,459	1,512,948		11, 622, 151	
FT 1989	90, 683	750,325	104,870	279,817	69,469	23,822	20,257	37,228	105,387	1,478,858	FY 1989	1,437,308	331,006	1,917,134	4,385,325	98,367	361,731	62,640	386,886	43,241	26,322	93,075	116, 439	391, 655	1,408,402	000'89	11,157,531	
FY 1988	93,031	734,074	101,877	255,174	65, 492	22,042	21,857	32,928	96,847	1,423,322	FY 1988	1,542,746	354,814	1,866,322	4,255,281	93,237	192,730	58, 224	415,238	46,231	31,784	107, 205	104,582	489,818	1,341,016	133,800	11,033,096	
BUDGET ACTIVITY 1	TRIDENT Hission Support	Strategic Weapons Systems	FBM Ship Operations	FBM Ship Maintenance	Strategic Communications	Space Systems Operations	Command & Staff	Maintenance of Real Property	Base Operations	Total BA-1	BUDGET ACTIVITY 2	GENERAL PURPOSE FORCES TACATR/ASW Operations	Fleet Air Support	Ship Operations	Ship Maintenance & Modernization	Combat Support Forces	Fleet Operations Support	Other Warfare Support	Fleet Air Training	Fleet Ship Training	Unified Commands	Flest Command & Staff	Cruise Missile	Maint, of Real Property	Base Operations	Foreign Currency	Total BA-2	

1-4

		,	,							 <b>b</b> .		~7 ₫	T	
NK-BA-2G	1-3-9		1-3-13 1-3-22 1-3-29 1-3-39	•	1-3-55 1-3-80 1-3-68 1-3-93		BK-BA-PG	1-4-6			•,	·		
FY 1991	500, 488	426, 775	202, 194 24, 267 7, 523 192, 791	351,742	214, 177 11, 919 28, 252 97, 394	1,279,005	FT 1991	478,570	478,570					
FY 1990	476,256	362,508	144,146 22,149 7,299 188,914	326,518	190, 483 11, 528 27, 785 96, 722	1,165,282	FY 1990	458,121	458,121	,				
FY 1989	409,366	373,296	178,027 20,633 7,436 167,200	296, 208	166,276 10,791 25,686 93,455	1,078,870	FY 1989	546,523	546,523					
FY 1988	382,677	381,674	158, 950 20, 500 7, 003 195, 221	282, 955	152, 331 10, 249 24, 718 95, 657	1,047,296	FY 1988	520,859	520,859					
HUDGET ACTIVITY 3	Security Program	Maval Communications	Leased Communications Forldwide Military Command & Control Hanagement Headquarters Other Communications	Specialized Support	Environmental Prediction Support Haval Observatory Haintenance of Real Property Pase Operations	TOTAL BA-3	HODGET ACTIVITY 4	Sealift Prepositioning/Surge	TOTAL BA-4					

SUMMRY OF REGULARIENTS BY ACTIVITY GROUP

Budget Activity 1: Strategic Forces

		FY 1988			FY 1989			FY 1990			FY 1991	
	Person	Personnel E/S	OCM, N	Person	nel B/S	Personnel E/S OGM, N	Person	Personnel E/S	OCH, N	Person	Personnel E/S	OCH, N
	H	Civ	Funding	Hil	Civ	Funding	Hil	Civ	Funding	Hil	Cţ	Fonding
TRIDENT Program	13	147	93,031	20	149	90, 683	50	149	99,520 20 149	200	149	125,246
Strategic Weapons Systems	975	2,616	734,074 1,659	1,659	2,753	750,325 1,972 2,920	1,972	2,920	899,850	1,972	2,004	938,888
Ship Operations	17,093	0	101,877 17,698	17,698	0	104,870 17,988	17,988	0	98,982 18,143	18, 143	0	100, 134
Ship Maint & Modernization	819	678 1,049		783	1,033	279,817	784 1,033	1,033	355,803 784 1,967	784	1,967	382, 391
Strategic Communications	1,485	0	65,492 1,598 0	1,598	0	66, 469	1, 662 2	7	86,019 1,563	1,563	7	101,523
Space Systems	156		22,042	157	313	23,822	164	334	26,580	174	334	27,605
FRM Fleet Command & Staff	8.14	13	21,857	647	12	20,257	844	11	21, 323	B40	ø	22,683
Maintenance of Real Property	0	35	32,928	0	35	37,228	0	35	34,368	0	46	36,868
Base Operations	716	739	96,847	695	728	105,387	611	119	104,201	178	רנר	114,235
TOTAL	21,994	4,890 1	21,994 4,890 1,423,322 23,457 5,029 1,478,858 24,213 5,203 1,726,646 24,274	23, 457	5,029 1	, 478, 858	24,213	5,203 1,	,726,646	24,274	5,288 1	5,288 1,851,573

#### Department of the Navy Operation and Maintenance, Navy

Budget Activity: 1 Strategic Forces (Summary)

# 1. Description of Operations Financed

launch capability which will ensure that the United States maintains a credible and survivable deterrent to and two older POSEIDON submarines are decommissioned. The submarines provide the launch platforms for the nuclear submarines (SSBNs). There is a net decrease over FY 1989 as one new TRIDENT II submarines deliver undersea strategic missile system, four submarine tenders, one launch area support ship, related service The Navy's mission in the Strategic Forces program area is to provide an undersea strategic mission nuclear war. The Navy's strategic deterrent force in FY 1990 consists of thirty-five fleet ballistic craft, and four ships chartered from the Military Sealift Command (MSC).

communications. Each SSBN is operated alternately by two crews who must know the status and condition of mission they operate under conditions of complete self-sufficiency, including maintaining only one-way Because of this Rach alert submarine must be ready on patrol to respond to an operational order. the submarine and the weapons system at all times.

target. The funding requested in this budget provides the support for the fleet ballistic missile forces Readiness of this weapon system must be continuously maintained, and the Joint Chiefs of Staff and the the operating fleet with a high degree of confidence that predictable numbers of warheads will impact on Fleet Commanders have prescribed a program of systematic tests which provide both strategic planners and necessary to determine whether the weapon systems are working as intended. An intensive, collaborative capability of sustaining high reliability standards. The result is a closed loop system which is the to maintain the readiness and reliability required to meet the objectives and to support the testing effort is undertaken between the fleet and the supporting complex ashore to demonstrate the ship's integral concept behind fleet ballistic missile system operational support.

In FY 1990 and FY 1991, program growth results from the introduction of the TRIDENT II submarine and D-5 Missile Weapon System and the increase of one SSBN tender overhaul. Additional growth is due to the transitioning of the Navy's two TACAMO squadrons from the EC-130 aircraft to the E-6A aircraft. available audit savings have been incorporated into the following budget estimates.

			FY 1989				
		Amended		•	FY 1990	FY 1991	
FINANCIAL SUMMARY	FY 1988	Pres. Budget	Approp- priation	Current Estimate	Budget Request	Budget Request	
TRIDENT Program Strategic Weapons Sys Ship Operations Ship Maint & Modernization Strategic Communications Space Systems FBM Fleet Command & Staff Maintenance of Real Property Base Operations	93,031 734,074 101,877 255,174 65,492 22,042 21,857 32,928 96,847	93,517 790,854 106,677 318,923 61,165 24,156 20,957 37,309 110,712	86,632 752,959 105,481 283,310 58,955 23,129 20,846 37,195	90, 683 150, 325 104, 870 279, 817 66, 469 23, 822 20, 257 37, 228	99, 520 899, 850 98, 982 355, 803 86, 019 26, 580 21, 323 34, 368	125,246 938,888 100,134 382,391 101,523 27,605 22,683 38,368 114,235	
TOTAL	1,423,322	1,564,270	1,476,587	1,478,858	1,564,270 1,476,587 1,478,858 1,726,646 1,851,573	1,851,573	
B. Reconciliation of	of Increases and Decreases	nd Decrea	1868.				Amount.
1. FY 1989 Amended	ed President	President's Budget					\$1,564,270
2. Congressional Adjustments A. Inventory Management B. ADP Systems C. MWR. D. Command, Control, and E. Asset Capitalization F. Ship Operations G. Emergent Repair H. USS Pennsylvania I. Fuel Savings J. A-76 Savings K. Outfitting	ressional Adjustments Inventory Management ADP Systems MWR. Command, Control, and Communications Asset Capitalization Ship Operations Emergent Repair USS Pennsylvania Fuel Savings A-76 Savings	Communic	ations		-21,444 -5,615 -1,000 -310 -32,131 -252 -800 -500 -500 -1,250	21,444 -5,615 -1,000 -32,191 -252 -800 -500 -600 -23,721	-193, 393
3. FY 1989 Appropriated	priated						1,476,587

4.	Pric A.	Pricing Adjustments A. FY 1989 2.1% Pay Raise 1) Classified 2) Wage Board	(2, 271) 1, 966 305	2,271
ņ		Other Increases  A. Programmatic Increases  1) Strategic Communications  2) TRIDENT Program  3) Space Systems Operations  4) TRIDENT II	(14, 019) 6, 755 4, 093 549 2, 622	14,019
9	6. Othe	Other Decreases  A. Programmatic Decreases  1) TRIDENT Program  2) Strategic Weapons Systems  3) Space Systems Operations	(-14,019) -330 -13,532 -38	-14,019
7	7. FY ]	1989 Current Estimate		1,478,858
æ	8. Prid A. A. B. D. C. B. B. C. C.	Pricing Adjustments A. Annualization of FY 1989 Pay Raise 1) Classified 2) Wage Board B. FY 1990 Direct Pay Raise 1) Classified 2) Wage Board C. Stock Fund 1) Fuel 2) Non-Fuel D. Industrial Fund Rates E. Other A. TRIDENT Program B. Strategic Weapons Systems C. Ship Maintenance and Modernization D. Strategic Communications E. Maintenance of Peal Property F. Base Operations	(2, 917) 1, 268 1, 649 (2, 137) 1, 767 370 (-2, 313) -2, 029 -2, 029 -2, 029 -2, 1314 -12, 565 682 3, 584 -2, 877 -656	38,256

•	<b>•</b>		מ	352, 685
usia.		A. TRIDENT Mission Support B. Strategic Weapons Systems C. FBM Ship Operations D. Ship Maintenance & Modernization E. Strategic Communications F. Space Systems Operations G. FBM Fleet Command & Staff H. Maintenance of Real Property I. Base Operations	16, 756 202, 575 5, 246 97, 581 22, 854 2, 333 2, 888 2, 117	
_	.11	Program Decreases A. TRIDENT Mission Support B. Strategic Weapons Systems C. FBM Ship Operations D. Ship Maintenance & Modernization E. Strategic Communications F. Space Systems Operations G. FBM Fleet Command & Staff H. Maintenance of Real Property I. Base Operations	-7,880 -64,247 -4,536 -34,350 -6,837 -302 -4,112 -5,702	-128, 00 <i>)</i>
***	12.	FY 1990 President's Budget Request	1,	1,726,646
,	13.	Pricing Adjustments  Annualization of FY 1990 Pay Raise  1) Classified 2) Wage Board  1) Classified 2) Wage Board 2) Wage Board 2. Wage Board 2) Wage Board 2. Non-Fuel 2) Non-Fuel 2. Other	(2,018) 1,367 651 (3,257) 2,683 574 (2,876) 1,215 1,661 (8,879)	101, 64

• • • • • • • • • • • • • • • • • • •	Func C. C.	Functional Transfers A. TRIDENT Program B. Strategic Weapons Systems C. Ship Maintenance and Modernization D. FBM Fleet Command and Staff E. Maintenance of Real Property F. Base Operations	14,874 -94,675 50,040 891 2,061 6,759	-20,050
15.	E	Program Increases A. TRIDENT Mission Support B. Strategic Weapons Systems C. FBM Ship Operations D. Ship Maintenance & Modernization E. Strategic Communications F. Space Systems Operations G. FBM Fleet Command & Staff H. Maintenance of Real Property I. Base Operations Program Decreases A. TRIDENT Mission Support B. Strategic Weapons Systems C. FBM Ship Operations D. Ship Maintenance & Modernization E. Strategic Communications G. FBM Fleet Command & Staff H. Maintenance of Real Property	8,753 158,684 3,977 22,111 24,990 24,990 1,663 2,520 -9,441 -5,496 -12,285 -411 -262	222,079
17.		I. Base Operations FY 1991 President's Budget Request	-1,308	1,851,573

### Department of the Navy Operation and Maintenance, Navy

Activity Group: TRIDENT Mission Support Budget Activity: 1 - Strategic Forces

## . Description of Operations Financed.

designs and a life cycle logistic support concept which has been designed to meet TRIDENT's reliability and readiness goals. Through the logistic support systems, which are dedicated to establishing and maintaining a high degree of operational readiness, TRIDENT is achieving an increase in at sea availability over the degree of operational readiness. TRIDENT is a three part weapon system comprised of longer range missiles and dedicated weapon support system, a nuclear powered submarine which is more survivable than earlier The Trident Mission Support Program is dedicated to establishing and maintaining TRIDENT at a high current POSEIDON force.

concept is built on the premise of strict configuration management and pre-planned maintenance work which is accomplished during the ship's refits. The 95 day submarine operational cycle consists of 70 days at sea on patrol and 25 days off patrol. 18 days of the off patrol time are planned to accomplish a refit and developing corrections and maintaining up-to-date documentation. This type of life cycle logistic support The preponderance of funding provides for engineering services and technical support for the TRIDEHF incremental overhaul of the ship. After 10 years of operations, an extended availability is planned to is more disciplined for TRIDENT than for other programs and is the key to maintaining readiness goals. submarines. Although a wide range of efforts are comprehended within this request, collectively they provide the means for keeping equipments operating. This includes testing to determine problems, accomplish alterations and repairs that are not feasible during the normal 18 day refits.

By knowing exactly what configuration and equipments are Support in this activity group provides the detailed pre-planning and engineering necessary to mak. maintenance removal and repair and other similar data, a specific maintenance plan for each refit developed. Thus, when the ship comes in for refit, the repair work has been scheduled, materials onboard, how many hours various equipment have been operating, what equipments are scheduled for prepositioned and the proper personnel and equipment are on hand. maximum use of the 25 day off patrol periods.

Other aspects of the current life-cycle logistic support program include rigid training to ensure rew personnel are familiar with equipment operations, periodic tests to evaluate hardware and system performance, and maintenance of data base information.

Mayal Undersea Systems Center, Newfort, R.I., provides for the life cycle operation and maintenance of OHIO TRIDENT Command and Control System Maintenance Activity (TRICCSMA), a MAVSEA field activity located at Class Command and Control System (CCS) equipments and computer software from a total systematic program approach. The subsystems composing the CCS include the following functional areas requiring system assessment:

IFF (Identification Friend or Foe) Electronic Support Measures Strategic System Interface Interior Communication Integrated Radio Room Radio Antennas Tactical Navigation Defensive Weapons Data Processing Monitoring Periscope Sonar

requires that such equipment subsystems be supported by subsystem In-Service Engineering Activities (ISEA) as well as equipment vendors even after ship transition to operational status. TRJCCSMA is tasked to provide the requisite management and coordination of maintenance support to insure that the objectives of establish and maintain computer software and equipment and maintenance baselines through system level The OHIO Class Submarire Maintenance Concept Life cycle maintenance of the CCS begins well in advance of ship construction/delivery in order to the TRIDENT Maintenance Concept are met. Primary objectives of TRICCSMA are to: status accounting and configuration change management.

- Deploy and support the CCS operations of OHIO Class Submarines.
- Develop and maintain the CCS Maintenance baselines on the OHIO Class Submarines.
- Formulate an upgrade program for the CCS that will correct deficiencies and improve reliability of the system.

Funding provides installation design for equipment configuration, acquisition of installation materials (cables, trays, The Land Base Evaluation Facility (LBEF) supports TRIDENT I and TRIDENT II efforts. pipes), and test procedures for equipment relocation.

II. Financial Summary (Dollars in Thousands).

### A. Sub-Activity Group Breakout:

FY 1991 Budget Request 21,169	125, 246	Amount. \$99,683	3,275	-3,314
FY 1990 Budget Request 20,853	99,520		(60) 60 (81) 81 (746) (2, 388)	-3,314)
Current Estimate 22,824 67,859	90, 683			
Appro- priation 18,708 67,924	86, 632		Raises	rogram Transfers s Out a-Appropriation TRIDENT INTERMEDIATE MAINTENANCE - Transfer of resources to Budget Activity 7, Central Supply and Maintenance, to reflect the conversion of contracted advisory and assistance services to in-house performance to reduce the risk of compromise to the acquisition procurement process. Recent examination by the Naval Investigative Service and by the Navy
Amended Pres. Budget 23,300	93,517	Decreases.	9 Direct Payes	ogram Transfers  Out  The Propriation  FRIDENT INTERMEDIATE MAINTENANCE - Transporters to Budget Activity 7, Centrand Maintenance, to reflect the conversion racted advisory and assistance selfontance to reduce the time-house performance to reduce the time-house to the acquisition procured process. Recent examination by the Minvestigative Service and by the Navy
FY 1988 Actual 22, 441	93,031	reases and	nts n of FY 198 ed t Pay Rais ed nnd Rates y Adjustmen	al Program Transfers sfers Out Intra-Appropriation a) TRIDENT INTERMEN resources to Buc and Maintenance, contracted advis in-house perforn compromise to tl process. Recent
TRIDENT Cmd & Ctrl Sys Maint Act	TRIDENT Sub Mission Support Total-TRIDENT Mission Support	B. Reconciliation of Increases and Decreases. 1. FY 1989 Current Estimate	<ol> <li>Pricing Adjustments</li> <li>Annualization of FY 1989 Direct Pay Raises</li> <li>Classified</li> <li>FY 1990 Direct Pay Raises</li> <li>Classified</li> <li>Classified</li> <li>Industrial Fund Rates</li> <li>Other Pricing Adjustments</li> </ol>	3. Functional Program Transfers A. Transfers Out 1) Intra-Appropriation a) TRIDENT INTERMED resources to Bud and Maintenance, contracted advis in-house perform compromise to the process. Recent Investigative Se
TRIC	TRII <b>Tot</b>			

a) Standard Level User Charges (SLUC) to rent commercially leased space realigned to Budget Activity 9, Base Operations Support for direct payment to General Services Administration Federal Building Fund.

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Program Increases
A. Other Program Growth in FY 1990
1) TRICCSMA - Annualization for 1/4 year of Kings Bay 46
detachment related travel and operational costs;
and average grade salary adjustment.

16, 756

activated and the Bangor, Washington facility will Submarines delivered in FY 1989 and FY 1990 to the Previous Ohio Class Submarines were C-4 configured configuration will require engineering support for ('FRIDENT Planned Equipment Replacement) Logistics; emphasis in quality control and safety, additional TRIDENT INTERMEDIATE MAINTENANCE -During FY 1590, be to allow depot level maintenance equivalent to the Fleet. Additionally the three new Ohio Class Noise Reduction Investigations; Class Command and (SUBSAFE) quality assurance programs, the TRIDENT Mechanical and Electrical Engineering Operational requirements have been instituted to ensure safe be upgraded. The Bangor facility's upgrade will the newer King's Bay facility. The upgrade will fleet require additional engineering support because these submarines will be D-5 configured. configurations are phased out at the turn of the ensure consistency and continuity in support of Control System Maintenance Factors; and TRIDENT Due to an increased Refit Improvement Program, and TRIDENT Planned TRIPER the King's Bay, Georgia, facility will be century. All of these events necessitate operation of TRIDERT submarines. Program increases required are: Submarine Safety The introduction of the D-5 increases in the following areas: Hull, both configurations (C-4/D-5) until C-4 Services and Planning Yard efforts; Squipment Replacement Repair. Training Facility support. submarines. 7

-1,880)

termination or Non-Engineering and Integration TRIBENT Data Extraction Tape System support; Information Research Management development efforts; termination of Engineering and

TRICCSMA - Decrease is due to termination of

Other Program Decreases in FY 1990

Program Decreases

AND CONTRACT

		\$99,520	3,063	14,874	,	·
ı	-5, 159	. •	(31) 31 (126) 126 (646)	(7, 260)	(15,574)	
integration information Research Management development efforts; one less direct workyear for Command and Control Systems (CCS) Maintenance; and reduction of logistics, engineering and technical services at both King's Bay and Bangor	TRIDENT INTERMEDIATE MAINTENANCE - Non-TRIPER (TRIDENT Planned Equipment Replacement Repair) decreases the number of repairs and refurbishments analyzed and scheduled. CCS Class Improvement decreases due to UYR-7/43 transition nearing completion. Other decreases are due to reduced workload in Trident ŠSBN Integrated logistic support.	6. FY 1990 President's Budget Request	บุเ	E. Other Pricing Adjustments 8. Functional Program Transfers	<ul> <li>A. Transfers-In</li> <li>1) Intra-Appropriation</li> <li>a) TRIDENT INTERMEDIATE MAINTENANCE - Transfer of</li> </ul>	the Trident Refit Facility/Trident Training Facility program from the Strategic Systems Program Office (SSPO). Functions in this transfer include Logistics Support Assessment, King's Bay Trainer Acquisition/Installation, Trident 1 & II Training Curricula, and Bangor Logistics Support Assessment.

(-100)	-706	40 40 (8,713) 8,713
B. Transfers Out	I) Intra-Appropriation  a) TRIDENT INTERMEDIATE MAINTENANCE - Functional Transfer of resources to Budget Activity 7, Central Supply and Maintenance, to reflect the conversion of contracted advisory and assistance services to in-house performance to reduce the risk of compromise to the acquisition procurement process. Recent examination by the Naval Investigative Service and by the Navy Inspector General have shown that excessive contractor involvement contains the potential for disclosure of sensitive information and improper preparation of specifications or processing of procurement documentation.	9. Program Increases A. One-Time FY 1991 Costs 1) TRICCSMA - Adjustment for an extra day in FY 1991 and average grade change. B. Other Program Growth in FY 1991 2) TRIDENT INTERMEDIATE MAINTENANCE - In FY 1991, one new submarine as well as maintenance schedules for existing Ohio Class Submarines create requirements for increases in the following areas: Hull, Mechanical and Electrical Operational Services and Planning Yard programs; TRIPER (TRIDENT Planned Equipment Replacement) Logistics; Noise Reduction investigations; and Command and Control Systems Maintenance Factors. Additional increases are due to the TRIDENT Refit Improvement program becoming fully operational in FY 1991.

8,753

\$125,246

11. FY 1991 President's Budget Request

III. PERFORMANCE CRITERIA.

A. TRIDENT SUBMARINE MISSION SUPPORT

## 1988   FY 1989   Stood   Units   Stood   St	FY 1990 FY 1991 100) Units \$ (000) Units 104,677	5,927 49 40 51 73 92 76 97	8,250 3,718 3,968 619 661 40 42 102 109	6,007 473 455 52 50 122 117	2,103 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3,315 615
### 1988   FY 1988   FY 1988   FY 1988   FY 1988   FO 19	38,6			•		3,037
group units \$\frac{\frac	21					501
g Operational Service Tasks Failure Res Analysis Failure Res Analysis Failure Res Analysis Failure Res Analysis Req Failure Res Analysis Req Form Prog Analysis/Res Req Mork Accomplishment Summaries Failure Res Analysis/Res Req Mork Accomplishment Summaries Flanned Fquip Repair In 7,569 Flanned Equip Repair In 776 Ind, Dev, & Sched for Dap Flanned Equip Repair Log Z,380 Flanned Equip Repair Log Z,380	\$(6					
g Operational Service Tasks Failure Res Analysis Change Analysis Failure Res Analysis Req Experiment Res Analysis Req Experiment Summaries Failure Res Analysis Req Fork Accomplishment Summaries Failure Res Analysis Req Fork Accomplishment Summaries Failure Res Analysis Req Experiment Summaries Fork Accomplishment Summaries Fork Accomp	[ ]					0
HMAE Eng Operational Service No. of Tasks Equip Failure Res Analysis Equip Change Analysis Equip Change Analysis Work Years Field Eng Prog Analysis/Res Req Field Eng Prog Analysis/Res Req Refit Work Accomplishment Summari Work Years No. of Planned, Dev, & Scheduled Refurb Analyzed & Scheduled Work Years Alteration Program Alteration Program Alts Plnd, Dev, & Sched for DAP Alts Plnd, Dev, & Sched for Refit Work Years Alts Plnd, Dev, & Sched for Refit Work Years	5 (000 2005,590	4,66		7,56	,	2,38
		Eng Operational Service of Tasks ip Failure Res Analysis ip Change Analysis k Years	nning Yard couble Failure Res Analysis Req ield Eng Prog Analysis/Res Req sfit Work Accomplishment Summari	N-TRIDENT Planned Equip Repair o. of Planned, Dev, & Scheduled efurb Analyzed & Scheduled ork Years	rogram Dev, & Sched for Dev, & Sched for	RIDENT Planned Equip Repair Log

Activity Group: TRIDENT Mission Support (cont'd)

Maintenance 5,344 2,917  The birth Plan Rev 142  The birth Plan Rev 144  The Analyzed & Monitored 107  The Analyzed & Monitored 107  The Analyzed & Monitored 107  The Acoustic Trials (f of Hulls) 1  Availability Planning Trials 6  Control Systems Haint Factors 31,681 28,442  End Analyses  The Extraction 1,548 1,548  The Extraction 1,548 1,548  The Control Data of Getermine Work Pkgs 117 1 1  The CCS Prob Reports 3,449  The CCS Prob Reports 1,549  The CCS Prob Reports 1,344  The Changes Processed 1,344  The Coperational Test and 1,676  The Coperational Test and 1,676  The Coperation Force Deficiencies 1,574  The Coperation Porce Deficiencies 2,574  The Coperation Porce Deficiencies 2,574  The Coperation Porce Deficiencies 3,574  The Coperation Porce Deficiencies 3,574	82 26 12 235 44	82 26 12 235 235 24 2	1,652	5,439 37 136	79 1,345 20 20 416 36	
Haintenance 5,344 2,917 3,169 224	3,171	1,243	41,516			0
Haintenance  Ty Mint Plan Rev  Ty Mit Plan Rev  Haintenance  Eval  Haintenance  Eval  Haintenance  Haintenanc	224 71 33 640 45	224 711 33 33 640 45 2 2		5,959 40 147	1,477 23 457 460	
Maintenance 5,344 2,917  Tp Mnt Plan Rev 44  Inge Eval  ts Analyzed & Monitored 407  thange Evaluations 775  tion ations  Acoustic Trials (f of Hulls) 1  Availability Planning Trials 6  Control Systems Haint Factors 31,681 28,442  end Analyses  ta Extraction 17,548 11,784  end Analyses  ta Extraction 6  Control Systems Haint Factors 31,681 28,442  end Analyses  ta Extraction 6  Eviews 11,548 1,749  Systemine Work Pkgs 11,749  A t CCS Prob Reports 34  thugs to Resolve 128  thugs to Resolve 128  thugs to Resolve 128  thugs to Resolve 128  thugs to Resolution of 1,344  mag Changes  encies & Prob Reports 1,344  mag Change Processed 413  to C Operational Test and 413  to C Operational Test and 1,676  systems Monitor 341  E. Monitor 151	3,169	946	36, 835	1		
Maintenance 5,344  Tp Mnt Plan Rev  Inge Eval  Es Analyzed & Monitored  Acoustic Trials (f of Hulls)  Acoustic Trials (f of Hulls)  Availability Planning Trials  Extraction  eviews  Control Systems Usint Factors 31,681  Extraction  eviews  Patrol Data  o determine Work Pkgs  Patrol Data  o determine Work Pkgs  Extraction  eviews  Patrol Data  o determine Work Pkgs  Extraction  eviews  Patrol Data  o determine Work Pkgs  Patrol Bata  o determine Work Pkgs  Extraction  eviews  Patrol Bata  o determine Work Pkgs  Patrol Bata  o determine Work Pkgs  Extraction  Extraction  1,348  Hugs to Resolute  Extraction of  Extraction  Extraction  Ingerial Supported  Resolution of  Extraction  Extraction  Ingerial Supported  Extraction  Extraction  Ingerial Supported  Extraction  Ingerial Supported  Extraction  Ingerial Supported  Extraction  Ingerial Supported  Extraction  Extraction  Ingerial Supported  Ingerial Supported  Extraction  Extraction  Ingerial Supported  Extraction  Extraction  Ingerial Supported  Extraction  Ingerial Supported  Extraction  Extraction  Ingerial Supported  Extraction  Ingerial Supported  Extraction  Ingerial Supported  Extraction  Extraction  Ingerial Supported  Ingerial Supported  Extraction  Extraction  Ingerial Supported  Ingerial Supported  Extraction  Ingerial Supported  Extraction  Ingerial Supported  Ingerial Supported  Extraction  Ingerial Supported  Ingerial Supported  Extraction  Ingerial Supported  Extraction  Ingerial Supported  Extraction  Ingerial Supported  Ing	79 25 12 227 <b>43</b>	79 25 12 227 43 43 6	1,569	5,082 34 129	61 745 16 203 27	209 15 44 37 21
Maintenance 5,344  TP Mnt Plan Rev  nge Eval  ts Analyzed & Monitored hange Evaluations  Acoustic Trials (f of Hulls) Availability Planning Trials  Availability Planning Trials  eviews  Patrol Data  o determine Work Pkgs  Resolution of  t CCS Prob Reports  Stradware/Software chngs  hngs to Resolve  ty Changes  nsive Weapons Sub-Systems  de Planning/Exec Hulls Supported  Resolution of  encies & Prob Reports  ngineering Action  ng Chngs Processed  system Liaison Act Reqsts  t of Operational Test and  ttion Force Deficiencies  Nonitor	2,917	965	28,442			1,676
Maintenarp Maintenarp Mnt Plange Eval ts Analyz hange Eval tion ations  Acoustic Availabil end Analyz eviews  Patrol De o determ Resolutings to Btrowns Weight CS Processive Weight CS Processive Weight CS Processive Weight Change to Blanning Change in of Operation For the Operation For Systems	142 44 22 407	142 44 22 407 75 15	1, 681 1, 548 117	5,149 34 128	79 1,344 20 413	151 11 32 27 12
Maintenarp Maintenarp Mnt Plange Eval ts Analyz hange Eval tion ations  Acoustic Availabil end Analyz eviews  Patrol De o determ Resolutings to Btrowns Weight CS Processive Weight CS Processive Weight CS Processive Weight Change to Blanning Change in of Operation For the Operation For Systems	5,344	647 118)	actors 3	s s pported	<b>o</b> s	上 4 6
6) Reliable Configure Sys E Configure Sys E Document Configure Configure Sys E Comman Failu TRIDE Temp P Reviee P P Analy P Required Correct Configure Correct	Reliability Dev & Inco Config Cha Sys Elemen Document C	Dev & Incorp Mnt Plan Rev Config Change Eval Sys Elements Analyzed & Monitore Document Change Evaluations Work Years  Noise Reduction  # Investigations Mid-Cycle Acoustic Trials (# of Pre-Depot Availability Planning Work Years	Command and Control Failure Trend Analy via Data Extrac Tape Reviews Review of Patrol Da		Analyses & Resolution of Deficiencies & Prob Reports Required Engineering Action Acq Temp Eng Chngs Processed System/Subsystem Liaison Act Reqst Correction of Operational Test and Evaluation Force Deficiencies	Performance Total Ship End of Refi Ship Operat TRIPER COMF

Activity Group: TRIDENT Mission Support (cont'd)

The same of the sa

101	10) Command and Control Systems Class	1,839		4,875		1,865		2,524	
	improvement Systems Workyears		5		111 39		15		50
11)	11) ILS Eng Support (WY)	310	m	110	-	381	6	8	
12)	12) HMEE Eng/Acoustical Tonals (WY)	3,721	47	3,702	46	4,002	50	4,529	57
13)	13) HM&E Class Improvement (WY)	552	<b>∞</b>	129	8	194	m	148	m
14)	14) Industrial Plant Equip	200	1	166	1	293	ı	271	ı
15)	15) Trident SSBN ILS (WY)	1,463	11	1,463	11	. 1,170	13	4,019	£
16)	<pre>16) TRIDENT Training Facility Bangor Life Cycle Support</pre>	1,263		1,410		1,958			
17)	17) Submarine Safety/Quality Assurance WORKYEARS Audits					1,862	24	1,912	2, 9
	Documentation: Liaison Action Requests Manual Change			٠			250 1		250
18)	18) TRIDENT Refit Facility Improvement Program	Program				870		1,130	•
19)	19) TRIPER Repair					1,355		3,600	
20)	20) Engineering Operational Trainers Life Cycle	fe Cycle		-				14,412	

#### B. TRICCSMA MISSION SUPPORT

	FY 1988	988	FT 1989	686	FY 1990	990	FY 1991	166
Total Funding	\$(000) Units 22,441 2	Units	\$ (000)	Units	\$\( \) (000)  \( \) (\( \) (\) (\( \) (\) (\( \) (\) (	Units	\$ (000) 21, 169	Units
<pre>Direct Funded     Salaries/Benefits (WY)</pre>	5,885	150	6, 204	147	6,319	146	6,516	146
Mission Support	2,528		2,711		2,762		2,849	
Logistics, Eng/Tech Services	11,773		13,909		11,772		11,804	
Land Based Evaluation Facility 2,25 Relocation Support (MILCON) Froj P-042)	2,255 -042)		0		0		0	
Problem Reports Requiring Engineering . Action		1,360		1,590		1,592		1,547
TRIDENT CCS Modifications & Temporary Eng. Changes (TEC) Installed	Eng.	206		241		241		234
Command and Control System Hardware & CCS Documents Under Active Configuration Mgmt. (000's)	•	1,954		2,015		2,076		2,136

#### IV. Personnel Summary:

	•	
FY 1991	13	149
FT 1990	20 7 13	149
FY 1989	20 7 13	149
FT 1988	177 8	147
End Strength (E/S)	A. Military Officer Enlisted	B. Civilian USDH

#### Department of the Navy Operations & Maintenance, Navy

Activity Group: Strategic Weapons Systems
Budget Activity: I Strategic Forces

. Description of Operations Financed.

reliability of the strategic weapons systems aboard the fleet ballistic missile submarines (SSBNs) than constitute the Navy's strategic deterrent forces. Forces currently supported are the POSEIDON and C-4 Backfit SSBNs deployed in the Atlantic and the TRIDENT I SSBNs deployed in the Pacific. SSP is also responsible for all planning and other efforts required for support of the TRIDENT II weapons system The TRIDENT II weapons system is scheduled for deployment in FY 1990. The Strategic Systems Programs (SSP) is responsible for the operational readiness and Strategic Weapons Systems funding provides for the following categories of requirements: currently being developed.

- targeting support; Navy navigation satellite system support; and the operating expenses of field activities control, navigation, test instrumentation, missile, missile checkout, and guidance subsystems. Funding provides support for all subsystem equipment aboard POSEIDON, C-4 Backfit and TRIDENT SSBNs and at shafe Efforts funded include: maintenance for subsystem equipment aboard SSBNs; equipment renewal and updating during overhauls; repair of failed components; logistics control procedures; operational Strategic Weapons Systems Support. A strategic weapons system consists of the Launcher, fire flight testing; support of crew training; technical services required to test, analyze and maintain reliability of the weapons system; missile maintenance operations at missile processing facilities; and headquarters.
- system overhaul requirements necessary for surface vessels to support the POSEIDON, C-4 Backfit and TRIDENT programs. Surface ships supporting these programs include the USNS REDSTONE (TAGM-20), the USNS RANGE SENTINEL (TAGM-22) and the USNS POINT LOMA (AGDS-2), utilized to gather test data during operational Hight tests, and the four tenders which serve as second level repair facilities and supply ships for POSEIDWAN and B. Surface Support Ships. Efforts funded include engineering services, repair efforts and weapons C-4 Backfit submarines.
- and activation of the Naval Submarine Base, Kings Bay; operation and maintenance of the TRIDENT Logistics Data System; TRIDENT training curricula development and support, and systems design and hardware/software C. TRIDENT Systems Support. Provides for TRIDENT systems support costs not uniquely identifiable to engineering, outfitting, equipment installation and checkout, and other efforts required for development the submarine or the strategic weapons system. Specific efforts include: facility planning, industrial

(cont'd) Strategic Weapons Systems acquisition and planning for the TPIDENT Training Facility to be located at Kings Bay; development and implementation of an integrated TRIDENT Logistics support assessment system; and the operating expenses for the TRIDENT Refit Facility and TRIDENT Training Facility at Kings Bay.

D. Transition of Kings Bay Facilities. SSP has functionally transferred the funding for operating the TRIDENT Training Facility and TRIDENT Refit Facility at Kings Bay to Chief of Naval Education and Training (CNFT) and Commander in Chief, Atlantic (CINCLANT), respectively, for FY 1991.

# 11. Financial Summary (Dollars in Thousands).

## A. Sub-Activity Group Breakout:

FY 1989

FT 1991 Budget Request 0 930,343 8,545	938,888	Amount	\$750,325	23,762					
FT 1990 Budget Request 95,745 796,293	899,850				(1,950)	1, 183 (1, 054)	45	( <del>                                     </del>	(17,091)
Current Estimate 112,098 627,370 10,857	750, 325				ין: די	7 E), #	-Ĩ		(1)
Appro- priation 112,018 630,084 10,857	759, 455				<b>Q</b> ;				
Amended Pres. Budget 112,018 667,979 10,857	790,854	Decreases.			4.1% Pay Rais				
FY 1988 Actual 103,038 622,105 8,931	734,074	lation of Increases and Decreases.	Estimate		werts on of FY 1989 ited	2) Wage Board FY 1990 Direct Pay Raise	fied bard	ates	<ol> <li>Non-Fuel Industrial Fund Pates Other Pricing Adjustments</li> </ol>
TRIDENT Weapons System Strategic Weapons System FBM Support Ships	TOTAL-Strategic Weapons Sys	B. Reconciliation of I	1. FY 1989 Current Estimate	•	<ol> <li>Pricing Adjustments</li> <li>A. Annualization of FY 1989 4.1% Pay Raise</li> <li>Classified</li> </ol>	2) Wage Bo B. FY 1990 Dire	1) Classified 2) Wage Board	C. Stock Fund Rates	<ol> <li>Non-Fuel</li> <li>Industrial Fund Pates</li> <li>Other Pricing Adjustm</li> </ol>

j

-12,565	262,575	
(-12,512) -12,512 -12,512 -13,513 -53	(569) (202,006) 6,618	33, 450
3. Functional Program Transfers  A. Transfers out  1) Intra-Appropriation  a) Adjustment reflects the transfer of resources to correct improperly aligned reimbursable workload at the Naval Supply Centers and Ship Parts Control Center. Efforts associated with this adjustment were financed reimbursable. However, these efforts are within the mission responsibilities of the Naval Supply Centers and Ship Parts Control Center. Therefore, these efforts should be funded as direct mission and not on a reimbursable basis.  2) Inter-Appropriation  a) Transfer to the O&M, Army appropriation to support the Defense Systems Management College, which will oversee the DoD education and training program for the acmission	e e u	<ul><li>2) Operational and Engineering Support</li><li>a) Increases in resources are required to</li></ul>
	4	

Increases in resources are necessary to provide 21,532 logistics support for the TRIDENT II (D-5) weapons system which begins operations in FY 1990. The increases reflect the beginning of the collection and analysis of usage data; maintenance of allowance documentation; analysis of supply effectiveness as well as the repair of equipment and components returned from deployed D-5 submarine.

Increase in resources are required to begin performance evaluation of the D-5 weapons system. Performance evaluation identifies deficiencies in design, operating procedures or maintenance operations which reduce, or are potentially capable of reducing strategic weapons systems readiness or reliability. Included in this function is the planning for flight test operations (which begin in FY 1991); the collection, recording and evaluation of equipment and system data from deployed SSBNs, maintenance facilities and missile processing facilities.

d) Increase in resources are required to begin 10,98

surveillance on deployed D-5 equipment and components. Surveillance is designed to	determine and evaluate the service life characteristics and the effect of the service	environment on life and performance of equipments and components. Surveillance	covers the inspection, evaluation and test of components, assemblies or systems aboard	deployed ships, at training activities, maintenance facilities, test sites, missile	facilities, contractor facilities and the	supply system
--	---	--	--	---	---	---------------

services to support calibration, comprehensive review of proposed changes and support to test Increase in resources are required to provide operational forces of responsive attention to system. Reliability maintenance assures the configuration control including analysis and preliminary design of alterations/changes to deployed D-5 missiles and equipment include: review and updating of design documentation, missiles and equipment, system integration, readiness and reliability objectives. The matters that effect their ability to meet efforts which begin in FY 1990 to support maintenance for the deployed D-5 weapon the engineering support for reliability and proof changes (SPALTS). **6** 

3) Missile Processing - Increased contractor field 3,051 engineering, contractor support, and other operating costs for the Strategic Weapons Facility, Atlantic in support of the TRIDENT II (D-5) Strategic Weapon System.

Training Support - Increased training materials acquisition, field engineering, and technical support of weapons & navigation trainers in support of the TRIDENT II (0-5) Strategic Weapon System.

(cont'd)

8

5

the number of operational submarines and shore during the initial operational years of a new This reflects both the increase in maintenance for the TRIDENT II (D-5) weapon identify solutions to problems discovered facilities in FY 1991, and the effort to weapons system to maintain readiness and Resources are required to begin advance reliability of that new weapon system. system. <del>(</del>)

(10,075)planning for D-5 Backfit efforts.

(4,043)Missile Processing - Increased contractor field Facility, Atlantic in support of the TRIDENT II engineering, contractor support, and other operating costs for the Strategic Weapons (D-5) Strategic Weapon System. 3

(491) Surface Support Ships - Increased funds are required to support AS-31 dockside selected restricted 4

-3,124 -1,985 -13,829 Strategic Weapons Systems in the areas of problem investigation, analysis and correction. Decrease Training Support - Reduced support as the initial Missile Processing - Reductions to C3 efforts in acquisition of training materials for TRIDENT II operational and engineering support for C3/C4 Operational and Engineering Support - Reduced represents an acceptable Level of risk to the Other Program Decreases in FY 1991 was completed in prior years. missile support contracts. Strategic Forces. 10. Program Decreases 5) 3

96-Personnel - Annualization of FY 1990 MEO and contract Bay, GA facilities completed in prior years. savings plus additional savings. S

installation and acceptance testing for the Kings

TRIDENT Systems Support - Outfitting, equipment

7

-32, 421

Activity Group: Strategic Weapons Systems. (cont'd)

\$938,888

11. FY 1991 President's Budget Request

FY 1991 96 34 36\* 144 11 -34 87 42 FY 1990 96 -33 14 **36**\* 9 64 FY 1989 134 96 34\* 116 50 89 10 28 -32 Audit Savings Incorporated in Budget Request (\$ in thousands) and warehousing at POMFLANT FY 1983 \* Excludes AS-31 support of SSNs. 96 108 99 36 30 93 0 0 CA Review of storage WEAPON SYSTEM OFFLINE SUPPORT (Deployed Shipmonths) TRIDENT (C-4) (SWFPAC)
TRIDENT (D-5) (SWFLANT) C-4 BACKFIT Overhauls POSEIDON Overhauls (C-4 BACKFIT) SSBN (TRIDENT C-4) SSBN (TRICENT D-5) C-4 BACKFIT (C-4) Tender Overhauls OPERATIONAL SUPPORT MISSILE PROCESSING SSBN (POSEIDON) Kings Bay (D-5) TITLE Performance Criteria. POSEIDOM (C3) (POMFLANT) (POMFLANT) OVERHAUL STARTS Bangor (C-4) TRIDENT REFITS (MONTHS) TYFE NAS TENDER SSBN 018-5-88 AUDIT # ن <u>.</u> E. III.

IV. Personnel Summary:

End Strength (E/S) A. Military Officer Enlisted	FT 1988 221 713	FT 1989  1,972  1,665	1, 973 1, 665	709 179 530
B. Civilian USDR	2,616 2,616	2,758	2,920	2,004

Department of the Navy Operation & Maintenance, Navy

Activity Group: FRM Ship Operations
Budget Activity: I Strategic Forces

# I. Description of Operations Financed.

Operational expenses This program provides a fleet of 35 Strategic submarines in FY 1990 and FY 1991 as the launch platform for the undersea strategic missile system. The submarines, together with four submarine tenders, related service craft, and four chartered ships are operationally supported in this program. Operational expe

ships, auxiliary equipment, and small boats, and small quantities of fossil fuel used in auxiliary diesal engines of nuclear submarines. The major portion of fuel is used by the tenders while in port to support ships' power and heating needs, as well as hotel services to submarines that are moored alongside during Fuel - includes ship propulsion fuel to operate the main plant/engines of the conventionally powered periods of intermediate maintenance.

(excluding telephone and garbage removal) incurred by FBM submarines and support ships while in port. Utilities - includes the cost of steam, electricity, water, sewage treatment and other utilities

Supplies and Equipage (S&E) - includes expenses of repair parts and other operating target (OPTAR):

Organizational level maintenance is that corrective and preventive maintenance Repair parts - includes all repair related consumables required to accomplish organizational level accomplished by the ship's crew. equipment maintenance.

life such as lubricants, boiler compound and bilge cleaner; devices such as power tools, office marchin s, cost of tugs, pilotage, and other related services provided by cammercial or other non-maval forces; and Other operating target (OPTAR) - includes administrative and housekeeping items; items having a limited duplicators; General Purpose Test Equipment (GPETE); Automated Bata Processing (ADP) requirements; the the cost of material purchased for medical and dental purposes

shakedown operations of new SSBNs, as well as monitoring firings following SSBN overhaul. Costs include Auxiliary Deep Submergence Support Ship (T-AGDS) leased from the Military Sealift Command (MSC). The Loaseback (Charter) - includes two FRM cargo ships (T-AK) and a Range Instrument ship (T-AGM), and a tracking, surveillance, communication and other services, such as monitoring the demonstration and Charleston, South Carolina and Kings Ray, Georgia. The T-AGM provides range safety (destruction) T-AKs provide regularly scheduled service to the FBM replenishment sites in Holy Loch, Scotland, maritime crew salaries, fuel, ship repairs, supplies and equipage and administrative expenses.

#### Financial Summary (Dollars in Thousands). 11.

#### Sub-Activity Group Breakout. Ę

										Amount	104,870	-6, 598	
	FY 1991	Budget	Request	2,932	7,110	32,877	32,849	24,366	100, 134				<u></u>
	FY 1990	Budget	Request	2,861	7,345	33,150	30,196	25, 430	98,982				(-217) -552 275 (-6,626)
		Current	Estimate	4,131	7,508	31,393	29,551	32,287	104,870				
FY 1989		Appro-	priation	4,007	8,366	31,462	29,359	32,287	105,481	creases.		•	
	Amended	Pres.	Budget	4, 131	8.372	31,967	29,868	32,339	106,677	ses and De	imate		Pates
		FT 1988	Actual	6.044	5 864	32 614	30,060	26, 295	101,877	Reconciliation of Increases and Decreases.	FY 1989 Current Estimate	Pricing Adjustments	Stock Fund (1) Fuel (2) Non-Fuel Industrial Fund Pates
				-	Fuel	Utilities	Repair Farts	Other Orlan	Total Act. Group	B. Reconcilia	1. FY 19	2. Prici	ri A

316

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-1,023	, 118) -523	-1, 595		
-1,	(-2, 118) -523	-1,		
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arin	990. arin	uti	port iori	9 4
mqns	FY 1 91. subm	ased	sup r pr	ore €.
don	in Y 19 don	urch	ighe	ā. g
Retirement of two Poseidon submarines	(SSBN 622 and SSBN 625) in FY 1990. Other Progam Decreases in FY 1991.	(SSBN 626) in FY 1991. Program reductions to purchased utilities	and stock fund purchases to support increased funding for higher priority	safety, firetighting and physical scenary programs.
WO P	SBN 18es one P	Y 19	purc Lng 1	ant in
of t	and S or co	in F	fund	retuc
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irem	BN 6 roga	SBN (	st(	safety, fi programs.
Ret	(SS Ner B	(SS	and in	pr
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9. FY 1991 OSD/OMB Budget Request

100,134

#### III. Performance Criteria.

	FY 1988	FY 1989	FY 1990	FY 1991
Ship Inventory Conventional	41 37	36	35	35
Ship Years Supported Conventional	41 4 37	40.4 4.0 36.4	39.4 4.0 35.4	. 39.3 4.0 35.3
Nuclear Ship Operating Months Supported Conventional	410 44 366	447 48 399	455 40 415	451 40 411
Underway Steaming Hours Conventional Nuclear	167,454 2,013 165,441	181, 122 1, 841 179, 281		184, 266 2, 004 182, 262
Barrels of Fossil Fuel Required	220,587	150,147	120, 451 1/	161,111
per Diem Days	1,464	1,460	1,460	1, 16U
MSC Charter Inventory	₹*	<b>ት</b>	অ'	r

that steam extensively import in addition to their underway steaming requirements. In FY 1990 and FY 1991 three of these four tenders are scheduled for selected restricted availabilities. These availabilities will reduce their import fuel and steaming hour requirements but will not affect their underway steaming hour requirements, which are driven by overseas deployment rotations and established underway training requirements for ships of this class. If wearly all of the fossil fuel funded in this budget activity is consumed by four submarine tenders

#### IV. Personnel Summary.

FX1991	18, 143 1, 331 16, 812
FY1990	17,988 1,324 16,664
FT 1989	17,698 1,361 16,337
FY 1988	$\frac{17,093}{1,333}$ 15,760
	End Strengtn (E/S) A. Miltary Officer Enlisted

#### Department of the Navy Operation and Maintenance, Navy

Activity Group: FRM Ship Maintenance Budget Activity: I Strategic Forces

## 1. Description of Operations Financed

This program funds depot and intermediate level maintenance and modernization, initial outfitting and associated technical support for the strategic forces as follows:

current combat capability, to established performance standards. Depot level repairs for the family of major overhaul, or complete rebuild of parts, assemblies, subassemblies and end items and correction of all discrepancies found during pre-overhaul tests and inspections or developed from maintenance history Regular Overhaul of the ship is that maintenance performed by the shipyards on material requiring analysis. The repairs restore the ship, including all operating subsystems which affect safety or detection and tracking (unique) SONARS installed on SSBNs includes overhaul, refurbishment and certification of SONARS and interface equipment.

which period the ship is rendered incapable of fully performing its assigned mission and tasks due to the nature of the repair work. A Technical Availability (TAV) is for the accomplishment of specific item of work by a repair activity, normally with the ship not present, during which period the ship's ability to repairs during post shakedown availabilities for new units and various other miscellaneous type repairs. repairs include voyage repairs, selected restricted availabilities, phased maintenance availabilities, fully perform its assigned mission and tasks is not affected by the nature of the repair work. RA/TA accomplishment of specific items of work by a repair activity, normally with the ship present, during Restricted and Technical Availabilities (RA/TA). A Restricted Availability (RAV) is for the

documents, installation of equipment, and updating of ship records. Installation is accomplished during It funds the preliminary design, preparation of blueprints and associated The strategic forces portion of the Fleet Modernization Program provides for the modernization of the POSEIDON and TRIDENT submarines, FRM submarine tenders and overhaul, at a forward site, or in conjunction with a restricted or technical availability. Fleet Modernization Program. strategic support ships.

including noise reduction, silencing alterations and sonar improvements which are designed to ensure the Specifically, the FY 1990 and FY 1991 programs will fund improvements in SSBN primary mission areas, defensive acoustic advantage of SSRNs. The program of installing small but high priority mission alterations during SSBN refit periods continues. This program uses industrial teams to install alterations during the extended SSBN operational cycle, which can be as long as 12 years.

of allowance computation rules, and other approved allowance changes. In FY 1989, the Outfitting program is transferred to the Other Procurement, Navy (OPN) appropriation which is consistent with the funding methodology for other initial and follow-on outfitting requirements, as well as Congressional direction for active ships and other selected or unique outfitting programs as required. Support is provided for outfitting and allowance changes resulting from installation of new equipment, modification of equipment, special equipage programs, revision of allowance parts lists and allowance equipage lists, modification Outfitting. The outfitting program provides non-aviation initial and follow-on outfitting support in the FY 1989 DOD Appropriation Bill.

Intermediate Level Maintenance is that maintenance which is normally performed by Navy personnel on repair and test weight handling equipment, repair periscopes, electronic equipment and electric motors, overhaul diesel engines and provide such services as printing, photography, optical repairs, engraving, replacement of damaged or unserviceable parts, components or assemblies; the emergency manufacture of tenders and repair ships, or at Fleet support bases. It normally consists of calibration, repair or canvas work, strainer shield manufacture, and certain preventive maintenance actions. The principal unavailable parts; and providing technical assistance to using organizations. IMAs are assigned to components of the Fleet Ballistic Missile Force IMA establishment are the submarine tenders and the TRIDENT shore based facilities at Bangor, Washington and Kings Bay, Georgia.

Technical and Engineering Programs provide necessary support for submarines and SONARS subjected to longer operational intervals by the Submarine Engineered Operating Cycle (SEOC) program, including

Inactivations provides funds to defuel, dismantle and dispose of ballistic missile submarines for various reasons including compliance with prevailing arms limitation agreements.

# II. Financial Summary (Dollars in Thousands)

### A. Sub-Activity Group Breakout:

1000	Request	6, 181 144, 860 19, 762 0 159, 790 10, 867 11, 618 1, 754 27, 259 382, 391	
	FY 1990 Budget Request	0 160,161 21,273 0 99,016 10,059 11,960 2,663 50,671	
	Current Estimate	0 30,882 30,882 0 90,355 18,165 10,733 1,863 20,000	
EX 1989	Appro- priation	8, 018 100, 758 30, 910 0 84, 239 23, 691 13, 828 1, 866 20, 000	
	Amended Pres. Budget	8, C18 107, 522 31, 948 22, 095 88, 922 24, 301 1, 929 20, 000	
	FY 1948 Actual	3,383 66,611 16,525 16,022 90,450 20,126 14,930 1,135 25,992	
		Ship Overhauls Restr./Tech. Avail Fleet Modernization Outfitting Intermediate Maint. Unique Sonars SSBN Monitoring Maint. Engrng Inactivations Total Activity Group	

Reconciliation of Increases and Decreases  1. FY 1989 Current Estimate
<b>£</b>

Amount \$279,817 12,073

	(467)	100	367	(443)	142	102	(-385)	586-	125 8)	(2.201)	(102/6)
	2. Pricing Adjustments	A. Annualization of Fi 1303 prices in the	1) Classified	2) Wage Board	B. FY 1990 Direct Pay KalSes	1) Classified	2) Wage Board	C. Stock Fund	2) Non-Fuel	D. Industrial Fund Rates	E. Other Pricing Adjustments
(	2.										

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conversion of contracted advisory and assistance services to in-house performance to reduce the risk of compromise to the acquisition procurement process. Recent examination by the Naval Investigative Service and by the Navy Inspector General have shown that excessive contractor involvement contains the potential for disclosure of sensitive information and improper preparation of specifications or processing of procurement documentation.

97,581

# Activity Group: FEM Ship Maintenance (cont'd)

684 1,732	(-3,945) -1,205 -2,740	(-30,405) -7,774
11) Installation of SNAP II AN/UKK-62(v)! SHIPALT on one additional SSBN to provide a non-tactical shipboard ADP system. 12) Separate funding line requirements for SSBN nuclear alterations (NUCALTS), ordinance alterations (ORDALTS), and package alterations required to maintain operational reliability/maintainability.	A. One-Time FY 1989 Costs  A. One-Time FY 1989 Costs  1) Reduction results from requirement for an Interim Drydocking (IDD) of SSBN 626 in FY 1989 with no follow-on SSBN IDD in FY 1990.  2) Starting in FY 1988, the SSBN Unique and Related Sonar program is transitioning its fleet support efforts (such as supply support, repair, training, engineering the site support) from five different Prime Contractors to one naval activity. Decrease reflects reduced FY 1989 efforts associated with this transition including: Lab relocation - inventory, inspection, packing, shipping and delivering to the In Service Engineering Agent (ISEA) for continued use in support equipment received from the contractors will be installed at the ISEA; Shut Town costs - support to inventory, inspect, determine disposition and ship all government owned hardware, software and documentation currently at the Prime Contractors being phased out of the program.	B. Other Program Decreases in FT 1990 <ol> <li>Reduction in funding required for service craft overhaus due, primarily, to overhaul of AFDB 7 (drydock) in Holy Loch, Scotland.</li> </ol>

-34,350

# Activity Group: FRM Ship Maintenance (cont'd)

inneering Support cost ingineering, reliability i evaluation engineering ion from 5 Prime ivy Fleet support. ewer sonar equipments lineering change ready-for -service supp Alt installations on eduction in the number Steam Generator d. es Allocation (DSA) N availabilities due to n requirements.			(238)	57	181	,	(818)	215	463	(019)	019	(6, 526)	(2,881)
decreases reflect Fleet Engineering Support cost savings such as logistics engineering, reliability engineering such as logistics engineering, reliability engineering associated with the transition from 5 Prime Contractors to 1 organic Navy Fleet support.  Decreases also reflect 12 fewer sonar equipments requiring repair and no engineering change instaliations, everhauls or ready-for -service support scheduled in FY 1990.  3) Decreased SSBN Title K-Alt installations on aging SSBN fleet.  4) Decreased SSBN Title K-Alt installations on aging SSBN fleet.  5) Decreased Lesults from reduction in the number of Sea Trial Charters; and Steam Generator Inspections/Repairs required.  5) Decreased Lesign Strvices Allocation (DSA) requirements to support SSBN availabilities due to reduced future modernization requirements.	6. FY 1990 President's Budget Request	7 Pricing Adjustments		1) Classified	2) Wage Board	3) Foreign National Direct Hires	B. FY 1991 Direct Pay Raises	1) Classified	2) Wage Board	C. Stock Fund	1) Non-Fuel	D. Industrial Fund Rates	E. Other Pricing Adjustments

50,040

(50, 040) 50, 040	6, 481 8, 765 701 489 489
A. Transfers In  A. Transfers In  I) Intra-Appropriation  a) Reflects transfer of support for the Ship Intermediate Maintenance Activity (SIMA)  at Kings Bay, Georgia from the Strategic Forces activity group. Realigns funding responsibility to the fleet to coincide with assignment of operational responsi- bility of the TRIDENT Refit Facility (TRF) now that the TRF is a fully operational fleet command.	A. Other Program Growth in FY 1991  1) Increase required for advance planning for USS OHIO (SSBN 726) overhaul in FY 1993.  2) Increase in intermediate level maintenance to support periodic refurbishment and replacement of TRIDENT equipments and an increase in amount of overall work being accomplished by the SIMAs; including docking restricted availabilities, industrial plant equipment refurbishment, and Ship alteration kit (SHIPALT TYKIT) installation.  3) Increase required for SSBN unique and related sonar refurbishment based on the scheduling of three additional SSBN extended refits (ERPS) in FY 1991 (Total of 12 Sonar Refurbishments)  4) Increase in number of ships monitored in FY 1991 increases requirement for maintenance documentation, performance data support, and material condition assessment.  5) Required safety (Halon Fire Exitinguishing System) and operational (shore power, weapons stowage, stores conveyor and A/C) alterations for submarine support ships and floating drydocks.
w	

22,111

-56, 496

8	Other Program Decreases in FY 1991	
	1) Reflects reduction in number of TRIDENT PSAs from	-1,045
	three in FY 1990 to one in FY 1991.	
	2) Decrease in number of SSBN battery renewals from	-3,247
	eight in FY 1990 to four in FY 1991.	
	3) Decrease results from two fewer mid-operating	-1,013
	cycle acoustic trials required in FY 1991 than FY 1990.	
	4) Decrease due to reduction in the number of tow	-25,287
	package installation requirements, fewer missile	
	compartment dismantlements and disposal, two less	
	SSBN inactivations and reduced requirement for reactor	
	core and hull disposal planning.	
	5) Decrease results from change in the mix of	-1,883
	service craft requiring overhaul in FY 1991 compared	
	with FY 1990.	

# Activity Group: FRM Ship Maintenance (cont'd)

4,904	-2,249	4,535	-933
<ul><li>6) Reduction in funding requirement based on a change -14,904 in the mix of Selected Restricted Availabilities (SRAs)</li></ul>		for SSBNs.  8) Reduction in SSBN Title K-Alt package installations -4,535 and associated NUCALTS and machinery alterations	(MACHALTS).  9) Decreases in Design and Planning Yard Services for SSBNs and submarine support ships due to reduction in requirements for future Title K-Alt installations.

11. FY 1991 President's Budget Request

\$382,391

1-1-44

#### III. Performance Criteria

#### Ship Overhauls

through FY 1991. Although the overhaul is costed for the full term including appropriation appears with the ship in the induction year. Advance preparation costs are reflected in the appropriate O.M.N expense fiscal year. The following depicts the regular overhaul program for fiscal years 1988 through 1991. No POSEIDON or TRIDENT overhauls are scheduled for FY 1988 advance preparation, only the portion applicable to the fiscal year

SSBNs Tenders Advance	Ships SH	0 0	Ships SM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ships 5M 0 0 6.0
Funding- AERP/PERA* Total Program	3.4 .0 .0 .0	0.	0 0	. 5 6.5 0

\*Advanced Equipment Repair Program/Planning, Engineering Repair and Alteration represents preoverhaul effort/repairs accomplished outside the shipyard facilities and directly funded by the customer.preparation costs are reflected in the appropriate O.M.N. expense fiscal year.

B. Restricted and Technical Availability. The resources required for voyage repairs are based on historical experience for each ship type and number of ships. Resources for planned availabilities are based on the schedule in each category. A summary of requirements follows:

	FY 1988	8861	FY 1989	6861	I.	FY 1990	FY 1991	1991
Type of Repair	Ships	<u> </u>	Surps	<u> </u>	Solips	됬	STILL	티
Vovage (op months)		8.6	447	447 12.2	455	455 13.0	451	451 13.4
Battery Renewals		1.9	9	4.5	<b>&amp;</b>	6.2	4	3.5
	m	34.8	m	34.7	<b>&amp;</b>	91.1	<b>6</b> 0	79.4
Habitability	9	2.4	m	Φ.	7	1.1	4	1.2
PSAS	0	0	0	0	ťΥ	1.5	-	.5
Service Craft Overhauls	0	4.3	<b>~</b> *	4 35.8	2	2 29.3	∞ .	28.2
Miscellanecus Availabilities	,	17.3	•	. 18.7		18.0		18.9
Interim Drydocking	9	0	-	1.1	0	0	0	0
Total		9.99		8.101		160.2		144.8

Activity Group: FRM Ship Maintenance (cont'd)

C. Fleet Modernization Program

C. Fleet Modernization Program	rodram	OI)	liars ir	(Dollars in Millions)	(51			
	IMPOSED REQMIS.	MISSION	8	HMGE	SAFE 6 NAV	HAB F PERS	PROGRAM	TOTAL.
FY 1988								
SUBMARINES	0	1.6	₹.	L.	0	ō	6.4	7.6
FBM SUPPORT SHIPS	0	0	٠.	- 0	0	ō	0	
SEPARATE FUNDING	0	7.2	Ö	0	0	0	г.	.7.3
NET ADVANCE PLANNING								0
TOTAL FOR BA - 1 *	0	80	.5	.7		0	6.5	16.6
	í							
	IMPOSED REQMTS.	MISSION	ខ	HMGE	SAFE 6 NAV	HAB E PERS	SUPPORT	\$
FY 1989							•	i,
SUBMAKINES	0	4.1	2.0	7.7	0	0	50 50	9.77
F3M SUPPORT SHIPS	0	0	0	m,	0	0	<b>ω</b> .	-
SEPARATE FUNDING	O	6.7	۴,	£.	0	0	0	7.3
NET ADVANCE PLANNING	(1)							F. 1
TOTAL FOR BA - 1 *	0	10.8	2.3	8.2	Ċ	0	9.6	30.9

<sup>\*</sup> May not add due to rounding

Activity Group: FBM Ship MainLenance (cont'd)

	IMPOSED REQMIS.	MISSION	8	HM&E	SAFE & NAV	HAB & PERS	PROGRAM	TOTAL
FY 1990		,						•
SUBMARINES	0	<b>-</b> :	O	ø;	0	•	11.1	12.0
FBM SUPPORT SHIPS	0	<u> </u>	0	0	0	٥	ĸ.	<b>47</b>
SEPARATE FUNDING	0	0.6	e.	0	0	0	o	9.3
NET ADVANCE PLANNING							,	4.
TOTAL FOR BA - 1 *	0	9.2	ů.	ø.	0	0	11.4	21.3
FY 1991	IMPOSED REQMIS.	MISSION	8	HMSE	SAFE 6 NAV	HAB E PERS	PROGRAM	TOTAL
SUBMARINES	0	0	<b>©</b>	0	0	٥	7.7	-
FBM SUPPORT SHIPS	0	ø.	₹,	1.2	÷.	0	.2	2.9
SEPARATE FUNDING	0	8.8	₹.	0	0	0	0,	9.5
NET ADVANCE PLANNING								0
TOTAL FOR BA - I *	0	9.4	φ.	1.2	τċ	0	7.9	19.8

\*May not add due to rounding.

FY 1991	0.000	0
FY 1990	0000	0
FY 1989	0 0 0 0	0
FY 1988	5, 177 5, 728 1, 355 3, 762	16,022
). Outfitting (\$000):	Equipment Outfitting COSAL Update Equipage, Special Programs Between Overhaul Changes	Total
•		

E. Intermediate Maintenance. Funding provides for repair parts and materials for support of strategic submarines alongside the submarine tenders or at the refit facility, maintenance of the FBM submarine tenders and support for various related service craft, as follows:

	FY 1988	FY 1989	FY 1990	FY 1991	
Productive Manyears Available Workload Manyears*	1,670.9	1,701	1,813 2,881	2,082 2,966	
Material Cost (\$000) Contractor Industrial Support (\$000) TRIPER Material (\$000) TRIREFITFAC Operations (\$000)	44,182 1,203 7,212 37,853	40,313 1,668 9,007 39,367	42,509 4,450 11,115 40,942	51,394 0 65,817 42,579	
Total (\$000)	90,450	90,355	99,016	159,790	
*Includes TRIPER workload of:	71	06	110	140	
F. Inactivations  Number of Submarines inactivating 1	FY 1988	FY 1989	FY 1990	FY 1991 0	

i

# G. Technical and Engineering Support

,	FY 1991	219	<b>5</b> 4	) m	219	)   	₩
	FY 1990	219	) <b>4</b>	m	219		**
	FY 1989	231	7 2	m	231		*
•	F. 1988	227	12	, ro	227		0
(1) SSBN Unique and Related Schars:	Fleet Support Services	(No. of Sonar Sys) Sonar Installations	Sonar Refurbishments	Site Support (Manyears)	Repairs (No. of Sonars)	Training Support	(No. of Sites)

	FY 1991	27	27	. 27	58
t Program	FY 1990	25	25	25	9
and Support	FY 1989	21	21	21	55
Monitoring	FY 1988	15	15	15	19
(2) SSBN Ship System Maintenance Monitoring and Support Progra		Test, Inspection & Maint. Doc. ,	Sub.Systems Perf. Data Suppt. (*)	Material Condition Assessment/Impr. (1)	Engineered Operating Cycle (2)

Note: (2) Number of ships monitored. (2) Planning workyears

SSBM Acoustic Trials

FY 1991	784 44 740	1,967
FY 1990	740	1,033
FY 1989	783 739	$\frac{1,033}{1,033}$
FY 1988	678 42 636	1,049
End Strength (E/S)	A. Military Officer Enlisted	B. <u>Civilian</u> USDH

Department of the Navy Operation and Maintenance, Navy

Activity Group: Strategic Communications. Budget Activity: 1 Strategic Forces.

## . Description of Operations Financed

Incompasses High Frequency (HF)/Very Low Frequency (VLF)/Low Frequency (LF) broadcast subsystems Command Authority (NCA) to deployed FBM submarines; secure ship-to-ship communications, a method developed to provide improved reliability and certainty of message reception from the National of communicating submarine loss or disability to shore locations; and a continuing evaluation for operational and newly-introduced communications systems for the FBM forces. The program Fleet Ballistic Missile (FBM) Strategic Communications program provides support program that ensures the effectiveness and readiness of the various systems.

specifically designated communications equipment. Engineering technical services cover such tasks production and those installed. Shore transmitting and receiving sites are operational 24 hours Requirements are determined by the number of systems and equipments scheduled for delivery from The FBM Ship/Shore Communications program provides funds for engineering technical services equipments; preparing and updating operational mode programs; configuration management; station communications systems; conducting a program to evaluate operational readiness of systems and deploying shipboars systems and shore stations worldwide. Funding is included for repair of and maintenance of deployed equipments and systems for shipboard and shore receiving sites. as: planning; monitoring production; conducting site surveys; reviewing operational tests; services are provided from Naval and commercial industrial sources to support deployed and operation and equipment maintenance; calibration; and systems effectiveness engineering. evaluating hardware modifications; working out detailed operational procedures for the

Additionally, the funds support fleet ballistic missile (FBM) Control System Communications, and provide for an operational strategic and tactical high frequency (HF) primary ship-to-shore receiving sites for the Circuit MAYFLOWER and the Circuit MERLIN strategic report-back systems. commanders through dedicated receiving sites by providing continuous, worldwide coverage of system for submarines. This program provides funding for the operation of seven (7) shore systems provide a means for high speed communication from submarines to their operations assigned high frequencies. Funds are also used for technical support for certification, Activity Group: Strategic Communications (cont'd)

maintenance and repair of associated shipboard equipments, and training and certification of shipboard operators/technicians.

post-maintenance check flights. Commencing in FY 1990, the two squadrons which provide the communications coverage begin transitioning from the EC-130 TACAMO aircraft to the E-6A aircraft. The transition will be The mission of FBM Airborne Communications is to maintain airborne communication coverage for Fleet CINCs as an integral part of national defensive strategy in support of worldwide retaliatory forces. Objectives are to provide 100% airborne coverage ensuring survivable around-the-clock instrument checks, syllabus flights, pre-deployment proficiency flights, trainer flights, and repositioning flights, to conduct special exercises, to provide NATOPS requalification and communications with deployed strategic forces, to provide alert launched and ready alert complete in FY 1991.

Activity within the TACAMO program provides synchronized low frequency spectrum communications To preclude interrupting coverage, a backup aircraft and crew is positioned coverage without interruption to deployed retaliatory forces. Maintenance of coverage requires airborne on-station relief with aircraft flying rotational patterns that utilize foreign and domestic airfields. in a ready status. TACAMO temporary additional duty (TAD) requirements support operational, training, and administrative Ucint Travel Regulations and Naval travel instructions. Miscellaneous expenses include taxis and vehicles, per diem and miscellaneous expenses in accordance with current per diem directives, mission including transportation; both conmercial and military air, private and commercial rental cars as required to perform mission.

# II. Financial Summary (Dollars in Thousands).

## A. Sub-Activity Croup Breakout:

	•	The state of the s	£1 1707		FW 1000	1001
	FY 1988	Pres.	Appro-	Current	Budget	Budget
	Actual	Budget	priation	Estimate	Request	Request
FBM Control Systems	34,771	32,778	31,155	31,658	41,665	43,088
TACAMO Aircraft Gps/Aircraft Sup	_	. 25,677	25,240	31,659	40,772	54,563
		2,710	2,560	3,152	3,578	3,872
TOTAL-Activity Group	65, 492	61,165	58, 955	66, 469	86,019	101,523

	Submarine Automated Broadcast Processing System (ISBABS) PIP equipment; development of software to	
	interface with new I/O devices; AN/UYK-20 overhauls; meeting NATO transmit interface	
•	requirements; and site surveys, drawings, etc. for	
	ISABPS new sites	•
7	Increase in connectivity monitoring required	773
	by incronduction of additional Extremely now Frequency receivers in the operational fleet.	į.
3	Increase due to field change installation and dual	1,036
•	configuration support for keyer upgrade to	
	Mayflower equipment	
4)	Increase for transition of TACAMO aircraft from	13,278
	the EC-130 to the E-6A will begin in FY 90 with	
	the arrival of 7 E-6As. To fully utilize the	
	enhanced capabilities of the new aircraft, JCS has	
	directed a more restrictive day-to-day flight	
	regime. This will result in more hours of transit-	•
	time to and from the operating area increasing	
	requirement hours by 10,351 hours.	
ŝ	Increase of 1 TC-1300 Aircraft and 297 flying	116
	hours in FY 1990.	
9	Increase in TACAMO Squadron requirements for	283
	transition training from EC-130 to E-6A aircraft.	•.•
7	Increase due to the realignment of funds from	1,615
	BA-1, Base Operations (1,178) and Maintenance of	
	Real Property (437) for ELF Interface Mitigation	
	(IM) support.	
8	Increase required to support contractor transition	3,750
	Training to the E-6A aircraft.	

	(-6, 837)	-13				016,970	d
5. Program Decreases	A. Other Program Decreases in FY 1990	1) Decrease in funding required to support training	costs such as C-130 Allison Engine School,	simplator training, RM teletype repair and	aircraft structural repair training.	2) Decrease in number of aircraft and flying hours	in the following model and series as the TACANO
'n.							

Activity Group: Strategic Communications (cont'd)

	86,019	2, 799	24,990
<b>37</b>		(1) 1 (1) 1 (1,166) 988 178 (438) (1,193)	(24, 990) 76 24, 608 283 23
squadrons transition to the E-6A aircraft: EC-1302- 5 aircraft/7.046 hours; KC-130F- 1 aircraft/290 hours; and TC-130G- 1 aircraft/290 hours. 3) Decrease in support required for Mayflower project.	6. FY 1990 President's Budget Request	A. Ancualization of FY 1989 Direct Pay Raise 1) Classified B. FY 1990 Direct Pay Raise 1) Classified C. Stock Fund 1) Fuel 2) Non-Fuel D. Industrial Fund Raies 5. Other Pricing Adjustments	8. Frogram Increases A. Other Program Increases 1) Increase to support VERDIN NATO transmit interface requirements and begin site preparation for Integrated Submarine Automated Broadcast Processing System (ISABPS) PIP Phase II for Icaland. 2) Increase of 5 E-6A aircraft and 17,916 flying hours as transition from the EC-130 is completed with the arrival of the idmaining aircraft. JCS direction to fully utilize enhanced capabilities of the new aircraft has increased requirement hours. 3) Increase in the travel requirements to support the transition of the E-6A aircraft.

(cont. d)

E-6A aircraft. EC-130Q- 7 aircraft/10,569 hours; C-130 type aircraft due to the transition to the (1) Decrease in aircraft and flying hours for the TC-1300- 2 aircraft/1565 hours. Other Program Decreases in FY 1991 Program Decreases

FY 1991 President's Budget Request

#### III. Performance Criteria

system that transmits a pre-recorded message to the National Command Authority when the submarine is "in SSN/SSBNs; ELF transmitting system; site preparation and installation of VLF Amplifiers; TACAND, primary VERDIN, an operational Very Low Frequency/Low Frequency digital broadcast subsystem Improvement Program (SCIP), Continuing Evaluation Program (CEP); MERLIN, a highly specialized, one-way extremis"; MAYFLOWER, a ship-to-shore HF communications system used to transmit data from operational used to transmit (shore-to-ship) unique traffic to deployed SSBN and Ship Submersible Nuclear (SSN) survivable communications link to insure NCA connectivity to SSBN forces; and SSBN Communications, technical services, repair, and support of an integrated program to provide survivable, reliable, submarines; VLF stations (the primary Fleet Submarine Communications): Submarine Communications and anti-jam command control communications to and from FBM submarines in the pre-rans-, and post-attack period. This program includes maintenance and operational costs of the following The FBM Control System provides for manpower authorizations, engineering and support for Strategic Submarine antennas. programs/projects:

FY	FY 1988 FY	FY 1989	FY 1990	FY 1991
VERDIN/Enhanced VERDIN (AN/WRR-7, AN/WRR-7A) Rcvr Sys Maintained	307	307	307	307
VERDIN (1SABPS PIP I & II) Planned sites	0	•		2
MERLIN (AN/BST-1) Systems Maintained	100	100	100	001

Activity Group: Strategic Communications (cont'd)

	FY 1988	FT 1989	FY 1990	<u>kil</u>	FT 1991	
Fixed VLF Site Maintained	. <b>t</b>	7			r-	
VLF. Site Refurbishment	<del></del>	-	<b>#</b>		<b></b>	
LF Transmitters Maintained	21	21	. 21		21	
CEP Analysis & Assessments (W/Y)	23	23	30		30	
FBM Radio Room Equipment Maintained	31	31	31		31	
BCA (Buoyant Cable Antenna) (OE-315) Equipment Systems Maintained	31	31	31		31	
CBFS (Cesium Bean Frequency Standard) Equipment Maintained	480	480	480		<b>4</b> 80	
MAYFLOWER System Shore Maintained Shipboard Maintained Keyer Upgrade	10 136 0	10 136 0	10 136 84		10 136 84	•
ELF Transmitting Sites Operated and Maintained Interference Mitigation (Only FY 1990-1991)	: <b>4</b>	2	8		<b>~</b>	
ELF Receivers Maintained	0	Đ	139		139	
MF/HF Multi-couplers Systems Maintained Systems Installed	10	10	10		10	
VLF Amplifier Sites		1			H	
Compact Very Low Frequency (CVLF) Support (W/Y)	2	2	2		8	
TACAMO Support (W/Y)	<b>о</b>	0	6		6	

j

Activity Group:

	(cont'd)	
7	trategic Communications	
)	Str	

FY 1991

FY 1990	on.		11 · · · · · · · · · · · · · · · · · ·	26,885	30,813	1,581	1,146	89,135	
FY 1989	<b>5</b>	9	17	24,010	25, 652	1,412	1,068	78,995	•
FY 1988	6	11.1	17	. 23, 393	27,614	1,370	1,186	78,619	
	SCIP-Submarines Assessed	SSBN Communications (W/Y)	Average Operating Aircraft	Flying Hours	Cost (\$000)	Hours Per A/C	Cost Per Hour	Per Diem Days	

32,667 ·

2,432

95,074

FY 1990	1, 662 283 1, 379	<b>7</b> 17
FY 1989	1,598 269 1,329	<b>0</b> 10
FY 1988	1,485 233 1,252	910

FT 1991

IV. Personnel Sumary:

End Strength (E/S)

Military Officer Enlisted Civilian

Department of the Wavy Operation & Maintenance, Navy

Activity Group: Space Systems Operations Budget Activity: I Strategic Forces

# . Description of Operations Financed.

environmental prediction and surveillance, it also provides an organizational structure for effective space coordination with other Department of Defense (DOD) elements. NAVSPACECOM is the naval component of the U.S. Space Command. NAVSPACECOM commands the operations of the Naval Space Surveillance System (NAVSPASUR) The Naval Space Command (HAVSPACECOM) Dahlgren, Virginia, supports naval space policy and strategy by providing direct support to fleet units worldwide through integrated control of naval space programs. The Command coordinates Navy-wide operational space resources and personnel required to fulfill Fleet missions. While reflecting the Navy's reliance on space for maritime communications, navigation, and the Navy Astronautics Group (MAVASTROGRU).

overflight alerts; radar pointing angles; satellite ephemeral predictions; orbital elements (for input into surveillance data for the space object catalog maintained at the Space Surveillance Center (SSC) located at satellite information from this system supports over 600 activities, consisting of all Fleet units, various Surveillance System (SPADATS). In the event of a failure at SSC, NAVSPASUR provides all support including detection data. Primary mission for Fleet support is vulnerability data for United States Navy and Marine command and control for each SPADAT sensor and maintains the space object catalog for the SSC. NAVSPASUR Corps operating forces. NAVSPASUR, as a force assigned to U.S. Space Command, provides 75% of the space National Command Authority (NCA) and space community; aiding in the protection and restoration of space is also designated as the Alternate Space Defense Operations Center (ASPADOC) for U.S. Space Command. includes responsibilities for monitoring potential space threats and disseminating information to the Surveillance Center (ASSC) with a backup control function for the entire Space Detection and Tracking shipboard computers); look angles; orbit breakup fragments and "problem" satellites; and uncorrelated capabilities; involvement with space system protection operation plans; and space control support the Cheyenne Mountain Complex in Colorado. WAVSPASUR is also designated as the Alternate Space NAVSPASUR operates a large continuous wave radar system to detect and track satellites. naval shore installations, and other departments of the Government.

Navigation Satellite System (NNSS) is the major operational space system to support navigation requirements of all Fleet units. Primary mission Fleet support is provided to FBM submarines, which impose the most Navy Astronautics Group (NAVASTROGRU) maintains and operates astronautic systems, including spacecraft and ground based components and subsystems to fulfill naval and national requirements.

Activity Group:
Space Systems Operations (cont'd)

management include upgrade for Extremely High Frequency (EHF) operations support and use of existing !UP capabilities to obtain geolocation of Radio Frequency Interference (RFI). NAVASTROGRU is responsible for Expanded roles for NAVASTROGRU in spacecraft the Fleet Satellite Extremely High Frequency Program (FEP) and its operations centers (FEPOCs). stringent mavigational accuracy requirements on NNSS.

Additional NAVSPACECOM responsibilities include around-the-clock operational Fleet support and operational management of communications satellite canability for Fleet communications, operational management of Relocatable Over the Horizon Radar (ROTHR) and Tactical Exploitation of the National Capabilities (TENCAP) as well as support for several naval compartmented projects.

# II. Financial Summary (Dollars in Thousands).

## A. Sub-Activity Group Breakout:

			6R6I AJ	. 7			
	FY 1988 Actual	Amended Pres. Budget	Appro- priation	Current Estimate	FY 1990 Budget Request	FY 1991 Budget Request	
Naval Space Command	5,830	4, 465	4,442	4,442	5,374	5,574	
Headquarters Space System	11,800	13,524	12,602	13,206	14,797	15,457	
Product Management Tracking, Telemetry and Control (TT&C)	4,412	6,167	6, 105	6,174	6,409	6,574	
Operations    ICTAL - Space Systems Operation	22,042	24,156	23, 129	23,822	26,850	27, 605	

Amount

B. Reconciliation of Increases and Decreases.

\$23,822	121	2,333
4/3		
	en de la companya de La companya de la co	
 ,	(123) 123 (178) 178 (-1) -1 (3) (424)	(2, 333) 314 385 344 60 60
1. FY 1989 Current Estimate	<ul> <li>2. Pricing Adjustment</li> <li>A. Annualization of FY 1989 Direct Pay Raise</li> <li>1) Classified</li> <li>B. FY 1990 Direct Fay Raise</li> <li>1) Classified</li> <li>C. Stock Fund</li> <li>1) Non-Fuel</li> <li>D. Industrial Fund Rates</li> <li>E. Other Pricing Adjustments</li> </ul>	3. Program Increases  A. Other Program Growth  1) Naval Space Surveillance Center (NAVSPASUR), in addition to providing fleet vulnerability reports, is a sensor to the U.S. Space Command Space Surveillance Center (SSC) and, is the Alternate Space Surveillance Center (ASSC), provides all back-up support in the event of SSC failure. Increase supports software modifications required to maintain compatibility as SSC software is modified and upgraded.  2) Increase for classified projects at Naval Space Command Headquarters.  3) Civilian personnel increases for Naval Space Surveillance Center (NAVSPASUR) and Navy Astronautics Group (NAVSPASUR) and Navy Astronautics Group (NAVASTROGRU) provide resources to meet fleet support and U.S. Space Command missions.  4) Increase for software modifications and upgrades for Joint Operational Tactical System (JOTS).  5) Increase for initial efforts to provide communications protocols and establish interfaces between NAVSPASUR and other world-wide U.S. Space Command Space surveitlance sensors.
. —	• •	• •

286			-41	
(238)	238	48		(-41) -41
7. Program Increases	A. Annualization.  1) Full work year costs for personnel increase in FY 1990 for staffing requirements for fleet in the costs formand missions.	support and U.S. Space Commerce B. One-Time Program Growth in FY 1991  1) One extra paid day in FY 1991		8. Program Decreases A. Other Program Decreases 1) Decrease for completion of initial software modifications to bring a portion of Naval Space Surveillance Center's (NAVSPASUR) operations center to state-of-the art technology.

9. FY 1991 President's Budget Request

\$27,605

							ion: Feading
FY 1991	e <del>r</del>	100\$	m	ها	FY 1991	11,800	\$103 ng and Operat. operational pace systems. space system.
FY 1990		<b>\$</b> 00 <b>7</b>	m		FY 1990	10,735	\$100 of Space Traini il connectivity. lewly acquired si
F. 1989	d.	1008	<b>.</b>	<b>v</b>	FY 1989	9,585	Standards) he development ablish doctrina ities for all n nths prior to I
FY 1988	atellite System) 4	100\$	<b>m</b>	<b>.</b>	FY 1988	8,575	and operation: Procedures Standards)  Command is responsible for the development of Space Training and Opera Standards (SPATOPS) which establish doctrinal connectivity, operational ps and management responsibilities for all newly acquired space systems funding is required 18-24 months prior to IOC of each new space systems.
Performance Criteria.		Laguna Peak, CA 2. Satellite Configuration 3. Injection Success	B. SURVEILLANCE 1. Transmitter sites Lake Kickapoo, TX Gila Lake, AZ Jordan Lake, AL	2. Receiver Sites Fort Stewart, GA Silver Lake, MS Red Kiver, AK Elephant Butte, NM San Diego, CA	Hawkinsville, GA	3. Catalog Items	C. SPATOPS Cost (\$000)  (Space Training and Operation: Procedures Standards)  Naval Space Command is responsible for the development of Space Training and Operation: Procedures Standards (SPATOPS) which establish doctrinal connectivity, operational relationships and management responsibilities for all newly acquired space systems. Further SPATOPS funding is required 18-24 months prior to IOC of each new space system.
III.	KE,		144				-

100	11 1331	174 67 107	334 334
•	rs61 14	<u>16</u>	334 334
,	FT 1989	157 68 89	319
	FT 1988	156 67 89	291 291
IV. Personnel Summary:	End Strength (E/S)	A. Military Officer	B. Civilian USDH

#### Department of the Navy Operation & Maintenance, Navy

Activity Group: Fleet Command & Staff
Budget Activity: I Strategic Forces

# . Description of Operations Financed.

Ballistic Missile (FBM) submarines to carry out their mission. Support provided includes material control and supply support, fleet temporary additional duty (TAD) for FBM crew rotations between continental United States and overseas sites and for crew training, and use of the Atlantic Underwater Test and Evaluation The purpose of this program is to provide the Fleet operational support required to permit Fleet Center (AUTEC). The submarine squadron and group commander staff requirements are also included. The staffs' mission is to operationally direct and administer material and logistic support and TAD.

The range is operated and managed by qualifications, and to test and certify shipboard weapon systems. The range is operated and managed the Naval Underwater Systems Center (NUSC). Requested funds represent the direct costs for support of The AUTEC range is used to conduct torpedo, Harpoon and TOMAHAWK proficiency firings, crew AUTEC range, open ocean firings, torpedo retrievals and post firing evaluations.

# II. Financial Summary (Dollars in Thousands).

Sub-Activity Group Breakout:

•		Budget	Request	2,301	4,621	6, 497	7,904 8,231	21,323 22,683
		Current	Estimat	2,229	4,406	6, 293	7,329	20, 257
F1 1303		Appro-	priation	2,362	4,852	6, 293	7,329	20,846
	Amended	Pres.	Budget	2,371	4,935	6, 297	7,354	20,957
		FY 1988	Actual	2,244	4,924	6,852	7,837	21,857
				Ship Ops Administration	Staff Administration	Shin Operations TAD	Control System Readiness	TOTAL-Fleet Command & Staff

1, FY 1989 Current Estimate

\$20,257

172

Amount

B. Stock Fund  I) Non-Fuel  C. Industrial Fund Rates  D. Other Pricing Adjustments  (3)	(24) 24 (355) (376)
3. Program Increases A. Other Program Increases 1) Increase in the material, supplies, and computer 1	(335) 132
s, the data	200
analysis of the firings.  3) Increase in travel to support TRIDENT crew rotations	(7)

335

	(141)	17-
f. Program Decreases	A. Other Program Decreases	1) Reduction of one civilian end strength due to the
41.		

-41

administrative oversight (Van Der Schaaf Study). Decrease in air conditioning plant training required for -13 DoD Inspector General initiative to reduce 7

떱 Reduction of excess emboard inventories to reduce the requirement for material/supplies funds needed for daily administrative operations shipboard personnel. 3

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₩.

-262

(-262)	19-	-65
<ul> <li>9. Program Decreases</li> <li>A. Other Program Pecreases</li> <li>1) Reduction in the maintenance training required by</li> </ul>	FBM crews in fire control systems, are conditioning plants and nuclear welding.  2) Decrease in material, supplies, and computer support pecrease in material, supplies, and group	commander staffs.  3) Reduction of three civilian end strength due to the DoD Inspector General initiative to reduce administrative oversight (Van Der Schaaf Study).
<b>©</b>		

10. FY 1991 President's Budget Request

Per	Performance Criteria.	FY 1988	FY 1989	FT 1990	FY 1991
44	em Support Firings ficer MK 48 Firings	253 94	237	2.40 8.40 8.40	240
æ	TRIDENT MK 48 Proficiency Firings	100	100	001	100
ပ	Per Diem Days	37, 463	30,359	30,298	27,553
o.	D. Number of Requisitions (Thousands)	664	638	673	678
ы.	Submarine Groups	44	₹ .	: <b></b>	<b>4</b>
(a.	Submarine Squadrons	4	4	ਾਂ ਵਾ <sub>.:</sub>	
<b>.</b>	FBM Submarines and Tenders Assigned	41	40	39	တ် တို့ (၂)

III.

FY 1990	844 198 646	1111
FY 1989	847 201 646	12
FT 1988	<b>874</b> 183 691	EII
IV. Personnel Sumary:	A. Wilitary Officer Enlisted	B. Civilian USDH

Activity Group: Maintenance of Real Property
Budget Activity: I - Strategic Forces

## . Description of Operations Financed.

This program provides maintenance, repair and minor construction for all buildings, structures, grounds and utility systems at strategic submarine bases and the Naval Space Command to permit assigned forces and tenants to perform their missions.

The major elements of this program are:

- Facilities Maintenance finances scheduled, day-to-day recurring maintenance, and emergency service work needed to preserve facilities.
- Major Repairs provides major repairs necessary to bring existing facilities into adequate condition to support assigned missions.
- Minor Construction finances the erection, installation or assembly of real property facilities; the addition, extension alteration, conversion or replacement of existing real property facilities; the relocation of real property facilities; and the installation of equipment which becomes part of a facility.

# II. Financial Summary (Dollars in Thousands).

### A. Sub-Activity Group Breakout:

			ET TOOS			
		Amended			FY 1990	FY 1991
	FY 1988	Pres.	- Appro-	Current	Budget	Budget
	Actual	Budget	priation	Estimate	Request	Request
Facilities Maintenance	27,517	31,079	30, 978	30,477	29,815	35,092
Major Repair Projects	2,240	2,679	2,679	3,213	1,388	1,031
Minor Construction	3,171	3,551	3,538	38 3,538	3, 165	2,745
Total Activity Group	32,928	37,309	37,195	37,228	34,368	38,868

 Rec	Reconciliation of Increases and Decreases.	Amount
•••	FY 1989 Current Estimate	37,228
2.	Pricing Adjustments  a. Annualization of FY 1989 Direct Pay Raises (18)	1,241
	1) Classified 2) Wage Board b. FY 1990 Direct Fay Raises 1) Classified	
	2) Wage Board 9 c. Stock Fund (-5 1) Fuel -9	•
	d. Industrial Fund Rates e. Other Pricing Adjustments (1,205)	: 1
m,	Functional Program Transfers  a. Transfers Out  1) Intra-Appropriation  a) Extremely fow Frequency Communication  system to Strategic Communications.	-2,817
4.	Program Increases  a. Other Program Growth in FY 1990  1) Increase for facilities maintenance of new facilities at Kings Bay as it reaches IOC. (2,888)	2,888
kņ.	Program Decreases  a. Other Program Decreases  1) Deferral of recurring maintenance and repair efforts and reductions in materials, supplies, and equipment support for planned facility maintenance.  2) Realignment of funds to Strategic Communications for ELF Interference Mitigation (IM) support. [-437]	-4, 112
<b>.</b>	FY 1990 President's Budget Request	34,368

7.	Pric	Pricing Adjustments	į	1,027
	ď	Annualization of FY 1990 Direct Pay Raises  1) Classified 2) Ware Roard	<b>24.</b> ε.	
	نه ۱	FY 1991 Direct Pay Raise	(35) 15	-
	c	Ç	20 (4)	
	_	J. Fore-	ლ —	-
	. e	Industrial Fund Rates Other Pricing Adjustments	(2) (979)	
∞.		Functional Program Transfer		2,061
	45	Contour to fully fund	(2, 725)	
		a) From Strategic Weapons Systems to Luis Luis transfer of Kings Bay to the Atlantic Fleet.	2,725	
	٠ <u>م</u>	Transfer Out 1) Intra-Appropriation	(-664)	
		<ul> <li>a) Transfer Trident Training Facility at Kings Bay to BA 8.</li> </ul>	-664	
9.	Prog	Program Increases		1,663
	ri o	One-Time Increase in FY 1991 1) One additional work day in FY 1991	4	
	'n	Other Program Growth in FY 1991	(1,659)	•
		facilities and personnel increases at Kings Bay. 2) Increase for deferred Facility Maintenance.	1,349 310	
71	). Prod	10. Program Decreases		-251
ì	rej	Other Program Decreases in FY 1991 1) Deferral of Minor Construction projects.	(-251)	
-	I. FY 1	11. FY 1991 President's Budget Request		38,868

FT 1991	12,536 8,328	FT 1991	46
FY 1990	10,578	FY 1990	35
FT 1989	8,780 7,918	FT 1989	35
FT 1988	7, 429	FT 1988	35
111. Performance Criteria.	Maintenance of Real Property Backlog, Maintenance/Repair (\$000) Total Building (KSF)	IV. Personnel Surmary:	A. Civilian USDR

Activity Group: Rase Operations Budget Activity: I - Strategic Forces

### . Description of Operations Financed.

This program group provides the base support services and material required at strategic submarine bases and the Naval Space Command to permit assigned forces and tenants to perform their missions.

The major elements of this program are:

- Utility Operations Includes operating expenses for purchased electricity, electricity general ing plants, purchased steam and hot water, heat plants, utility distribution systems, waste systems, air conditioning and refrigeration plants.
- Personnel Operations Support required for personnel related functions include expenses for:
- Bachelor Housing Operations and Furnishings provides support for the operation of barracts and the purchase and maintenance of personnel support equipment related to this housing.
- provides support for programs which focus on improving organizational and individual effectiveness and the Other Personnel Support - provides for mess halls, sales activities, laundry and dry cleaning They were 1) Station Hospitals, Medical and Dental Clinics - direct and indirect health care costs for Health Care Facilities not under the financial control of the Navy Medical Command and 2) Ruman Goals facilities. Previously separate sub-activity groups were consolidated under this sub-activity group. administrative support of the Alcohol and Drug programs.
- Morale, Welfare and Recreation provides authorized appropriated fund support for shore bused recreation activities.
- direct support of the mission of the base. For example, Fleet Training Support, Logistics Support, etc. Base Operations - Mission - Support for those Base Operations functions which are required in Expenses are included for the following functions:

procurement, receipt, storage and issue of bulk liquid fuel, including operating aircraft fuel servicing Retail Supply Operations - In addition to standard supply functions, this item includes the facilities. Additionally, waterfront operations such as handling incoming and outgoing cargo and loading/unloading live ammunition onto and from combatant vessels are included.

- Maintenance of Installation Equipment provides for maintenance of major shore based equipment service and miscellaneous craft, construction equipment (non-deployable), weapons, electronics, electronic engineering, and fleet moorings.
  - Other Base Services provides for the maintenance and operation of vehicles/other transportation equipment, port services (includes navigational assistance to ships, operation of service craft, degaussing operations, and oil spillage cleanup).
- Base Operations Ownership Support required at shore bases regardless of type of mission being performed which must be sustained to have a functioning base. Expenses are included for the following
  - property, and fire protection and firefighting for Naval activities and their tenants. The sub-activity group Hazardous Waste Material Handling was consolidated into this sub-activity group and includes personnel, supplies and training associated with the identification and disposal of hazardous wastes. custodial services, refuse/garbage collection and disposal, snow removal, rental and leasing of real Other Engineering Support - Public Works Department Administration, engineering services,
- Administration provides support related to financial/resource management, civilian manpower management, and maintaining military personnel records.
  - Automated Data Processing provides analysis programming, equipment rental, operations and maintenance, contractual services and supplies.
    - Audiovisual provides supplies and services required for audiovisual support.
- Physical Security provides shore base physical security.

II. Financial Summary (Dollars in Thousands).

### A. Sub-Activity Group Breakout:

			FY 1989			
	FY 1988	Amended Pres.	Appro-	Current	FY 1990 Budget	FY 1991 Budget
	Trans.	norman a	PLIALION	Paring	Rednest	Kequest
Base Communications	3, 190	4,842	4,829	4,835	5,351	4.691
Utility Operations	20,627	21,481	21,439	22,127	23,053	19,562
Personnel Operations	8,899	10,603	10,495	10,323	8,668	8,665
Base Operations, Mission	22,845	29,754	29,662	27,420	25, 904	31,252
Ownership Operations	41,286	44,032	41,690	40,682	41,225	50,065
Total Activity Group	96,847	110,712	108,115	105,387	104,201	114,235
			•			

# B. Reconciliation of Increases and Decreases.

1. FY 1989 Current Estimate

105,387

Amount

Pr.	icing Adjustments		3,055
ส	a. Annualization of FY 1989 Direct Pay Raises	(294)	•
	1) Classified	206	
	2) Wage Board	88	
þ.	FY 1990 Direct Pay Raises	(362)	
	1) Classified	347	
	2) Wage Board	15	
ပ	Stock Fund	(-248)	
	1) Fuel	-229	•
	2) Non-fuel	-19	
đ,	Industrial Fund Rates	(31)	
e.	Other Pricing Adjustments	(2,616)	

-656			2,1:7	-5,702
	777	(-1,507)	(67) (1, 873)	695-
3. Functional Program Transfers	1) Intra-Appropriation 2) Intra-Appropriation 2) Transfer of hazardous waste disposal resources from Budget Activity 7, Field Operations, to individual activities to encourage savings by making generators directly responsible for disposal.  2) Transfer of Defense Data Network (DDM) resources from budget Activity 3, Leased Communications to individual users to encourage savings by making users directly responsible for paying for their own DDM usage.	<ul><li>b. Transfers out</li><li>1) Intra-appropriation</li><li>a) Transfer of ELF Communication System to</li><li>Strategic Communications.</li></ul>	<ol> <li>Program Increases         <ul> <li>Other Program Growth in FY 1990</li> <li>Increase for leasing of temporary facilities for the Navy Astronautics group pending completion of Military Construction.</li> <li>Increased utilities at King's Bay due to new facilities and increased industrial operations as the Submari ? Base reaches Initial Operating Capability (10C).</li> <li>Increased supplies, materials, and contract support for hazardous waste program.</li> </ul> </li> </ol>	<ol> <li>Frogram Decreases</li> <li>Annualization of FY 1989 Decreases</li> <li>Decrease resulting from realignment of crane operators and riggers to TRIDENT Refit Facility.</li> </ol>

ions -1,178 -96 -3,859	(198) 147 51 (431) 415 16 (119) 75 44 (2,281)	(13, 180) 13, 133 sources tons by ing 47
<ul> <li>b. Other Program Decreases in FY 1990</li> <li>1) Realignment of funds to Strategic Communications for Extremely Low Frequency interference mitigation (IM) efforts.</li> <li>3) Reduction in energy utilization through energy conservation.</li> <li>4) Reductions in personnel support and mission operations.</li> <li>6 FY 1990 president's Reduct Decrease.</li> </ul>	7. Pricing Adjustments  a. Annualization of FY 1990 Direct Pay Raises  1) Classified  2) Wage Board  b. FY 1991 Direct Pay Raises  1) Classified  2) Wage Board  c. Stock Fund  1) Fuel  2) Kon-Fuel  d. Industrial Fund Rates  e. Other Pricing Adjustments	8. Functional Program Transfer  a. Transfers in  1) Intra-appropriation  a) Transfer in from Strategic Weapons to fully fund first full year of operation  of Kings Bay.  b) Transfer of Defense Data Network (DDN) resources from budget Activity 3, Leased Communications to individual users to encourage savings by making users directly responsible for paying for their own DDN usage.

	1,520	-1,308	110, 633
(-6, 421) -3, 921 -2, 500	(38) 38 (1,482) 32 355 1,095	(-1,308) -33 -852	
<ul> <li>b. Transfers out</li> <li>1) Intra-appropriation</li> <li>a) Medical/Dental clinics at Kings</li> <li>Bay to Budget Activity 8.</li> <li>b) TRIDENT Training Facility to Budget</li> <li>Activity 8.</li> </ul>	9. Program Increases a. One-Time FY 1990 Cost 1) One additional civilian personnel workday a. Other Program Growth in FY 1991 1) Increased cost for the annual rental of land at Naval Space Surveillance Command in San Diego. 2) Increase in personnel operations to support first full year of operations at Kings Bay. 3) Initial operating year of a Swimmer Defense System as a part of the Waterside Security System to provide increased, integrated physical security at the Bangor Trident Submarine Base.	10. Program Decreases in FY 1991  a. Other Program Decreases in FY 1991  1) Decrease reflects reduction in energy utilization through energy conservation.  2) Decrease reflects reduction in utility operations, hase operations mission and ownership administration/ADP services.	12. FY 1991 President's Budget Request

III. Performance Criteria.	FY 1988	FY 1989	FY 1990	FT 1991	
Operations of Utilities Total Energy Consumed (MBTU's)	20,627	22,127	23,048	19,557	
Total Non-Energy Consumed (000 Gal)	1,373,300	1,411,193	1,451,658	7. 4.91. p 0.38	-
Base Communications Number of Instriments	3,190	4,835	5,351	4,691	
Number of Mainlines	3,204	3,384	3,598	3,687	
Daily Average Msg Traffic	3, 638	3,858	3,993	4,093	
Personnel Operations					
Bachelor Housing (\$000)	752	1,337	1,355	1,623	
No. of Officer Quarters	133	133	199	199	
No. of Enlisted Quarters	2,194	2,482	2,558	2,638	
Other Personnel Support (\$000)	3,991	291'5	3,994	3,042	
	60,965	62,760	63,503	64,239	
(Military, E/S)	9,344	10, 705	11,376	11,876	
(Civ/Dep, E/S)	51,621	52,055	52,127	52,363	
Morale, Welfare & Recreation (\$000)	4,156	3,824	3,319	3,042	
	73,232	77,907	80,765	82,446	
(Military, E/S)	8,979	10,238	10,856	11,356	
(Civ/Dep, E/S)	64,253	699''9	606 69	71,090	
Race Onerations, Mission	,				
Retail Supply Operations (\$000)	4,262	5,496	5,931	5,354	
Line Items Carried	. 98	93	93	93	
Receipts (000)	127	135	145	148	
Issues (000)	146	. 157	168	172	
Maintenance of Installation Equip (\$000)	488	811	784	714	
Other Base Services (\$000)	18,095	21,113	19,189	. 25, 184	
No. of Motor Vehicles, Total	1,870	1,876	1,876	1,876	
	1,563	1,569	1,569	1,569	
(Perseq)	307	. 307	307	307	
Ownership Operations Other Fraincering Support (SUMM)	18.475	21.336	21,309	23, 483	
	16,842	1.3, 441	13,929	18,885	
Number of Bases, Total	ή.	en i	m	m	
(CONUS)	(r)	m	<b>~</b>	، لم	
(Overseas)	0	0	0	<b>.</b>	

IV. Personnel Summary:

End Strength (E/S)	FY 1988	FY 1989	FY 1990	FY 1991
A. Military	716	695	677	178
Officer Enlisted	75	101 594	101 678	100 678
B. <u>Civilian</u>	739	728	71.9	111
ОЗОН	739	728	719	111

SUBBRY OF REQUIREMENTS BY ACTIVITY

Budget Activity 2: General Purpose Forces

	1	FY 1968			FY 1989	1	*****	FY 1990			FY 1991	
	Personnel E/S	el E/S	OCHEN	Personnel E/S	al E/S	OCHEN	Fersonnel E/S	el E/S	N#190	Farsonnel E/S	*I E/S	OCHE
	Mil	Civ	Punding	Hil	Ç	Punding	Hi1	Civ	Punding	Mil	Ç	Funding
			*********									
TACAIR/ASW Operations	14, 531	322	1, 542, 764	45,294	328	1,437,308 45,326	45, 326	328	1,401,880 (5,546	15, 546	319	1,424,245
Fleet Air Support	10,693	24	354, 814	11,674	. 22	331,006 11,750	11,750	21	320,770 11,757	11,757	. 18	321, 433
Ship Operations	188,192	0	1,866,322	203, 794	•	1,917,134 206,420	206, 420	•	1,820,969 205,705	205, 705	Ö	1,810,136
Ship Haint, & Modern.	8, 325	240	4, 255, 281	6,897	627	4, 385, 325	9,428	838	4,850,296 10,015	10,015	838	4, 993, 792
Combat Support Forces	10,647	185	93,287	11,033	961	98, 367	11,250	195	92, 139	11,386	195	96, 316
Fleet Operations Support		901	192,730	5, 127	119	301, 731	5, 241	0E9	483,770	5,521	651	533, 724
Other Warfare Support		63	58,224	128	19	62,640	129	E	65, 455	129	8	67, 874
Fleet Air Training	16,913	301	415, 238	16,984	356	396, 886	16,531	350	438,917	16,557	271	433, 569
Fleet Ship Training	2,442	95	46,231	2,246	104	43,241	2,260	104	42,343	2,257	6	64, 535
Unified Commends	826	261	31,784	826	272	26, 322	801	265	31,958	179	255	33,965
Fleet Command & Staff	10,966	1,416	107,205	10,937	1,436	93,075	10,758	1, 431	96, 359	10,609	1,407	91,040
Cruise Missile		0	104,582	0		116,439	•	ô	115,888	•	•	131,950
Maint, of Real Property	11.1	477 2,305	489,818	538	538 2,171	391,655	540	540 1,964	348, 459	547	1,893	362,006
Base Operations	28,410 21,937	21,937	1, 341, 016	29,075	29,075 21,465	1,408,402	29,214 21,801		1,512,948	29,246 21,274	21,274	1,564,350
Foreign Currency	0	0	133,800	•	0	68,000	0	•	•	0	٥	Ð
Total BA-2	327,757	27,555 1	1,033,096	346,553	27,163	327,757 27,555 11,033,096 346,553 27,163 11,157,531 349,648 27,990 11,622,151 350,055 27,277	349, 648	27,990 1	1,622,151	350,055	רוב,רב	11,914,936

Budget Activity: 2 (Two) - General Purpose Forces (Summary)

## Description of Operations Financed.

These forces, operating under the control of the unified and specified aircraft decrease from 3,471 in FY 1990 to 3,448 in FY 1991. In addition this program funds a network of conducting strike operations to ensure control of the sea and air in the event of war. In FY 1990 this commanders, deploy to the Indian Ocean; northern, eastern, and western Pacific; north Atlantic; central and eastern Mediterranean; Caribbean and Central America regions. The Navy's mission in General Purpose Forces is to provide combat ready fleet forces capable of program includes 503 general purpose ships and decreases to 495 in FY 1991. The average operating shore installations and commands.

mine warfare ships, 60 combat logistic and 68 support ships. In FY 1991 the General Purpose Naval Forces carriers, 4 battleships, 183 surface combatants, 97 submarines, 63 amphibious force ships, 13 patrol and submarines, 62 amphibious force ships, 12 patrol boats and mine warfare ships, 61 combat logistic and 70 are comprised of 495 units, including 15 aircraft carriers, 4 battleships, 174 surface combatants, 97 The General Purpose Naval Force is comprised of 503 units in FY 1990, including 15 aircraft support force ships.

class. The FY 1990 and FY 1991 operating tempo is level for deployed and non-deployed forces at 50.5 and ships. Additions to the conventionally powered fleet include 3 Aegis guided missile cruisers, 3 Landing nuclear powered fleet will receive 1 nuclear powered aircraft carrier and 4 nuclear attack submarines of the 688 class. During FY 1991, the General Purpose Naval Force program supports the introduction of 18 oilers. Increases to the nuclear powered fleets include 5 nuclear attack submarines of the Los Angeles During FY 1990, funding for the Navy's General Purpose Forces supports the introduction of 22 new quided missile destroyer, 3 mine countermeasures ships, 2 towed array surveillance ships, and 4 fleet Increases in the conventionally powered fleet include 3 Aegis guided missile cruisers, 1 ship docks, 5 mine countermeasures ships, 3 towed array surveillance ships, and 3 fleet oilers. 29 days per quarter, respectively. new ships.

The General Purpose Forces flying hour program includes 942 thousand flying hours in FY 1990 and 940 flying hours available to keep the crews qualified to perform their primary mission in assigned aircraft. conduct operations at 87% Primary Mission Readiness (PMR), including 2% simulators. PMR represents the thousand hours in FY 1991 to allow combat aircrews (both Navy and Marine) to maintain proficiency to The program also includes 268 thousand hours in FY 1990 and 261 thousand hours in FY i391 flying hours for aircrew training in the Fleet Readiness Squadrons (FRS) and 207 thousand flying hours and 204 thousands hours in FY 1991 for fleet air support operations.

(PERA) has been transferred, within ORMN, from Budget Activity 7, Central Supply and Maintenance, to this Cycle (EOC) program and for upgrading of ships and ship equipments; and required berthing and messing for submarines, surface combatants, and other ships. The trend of using fewer overhauls and more restricted the procurement of initial outfitting spares, formerly budgeted in this program, has been transferred to continues through FY 1991. SSN-688 Class Depot Modernization Program begins with 5 depot availabilities in FY 1989. Also provided are voyage repair support to operating units; material required to perform equipments or systems to enhance capability or effectiveness of major combat systems, communications and capabilities, combat systems, detection sonars and weapon systems to improve combat readiness; technical Beginning in FY 1989 the funding for Other Procurement, Navy. In addition, funding for Planning and Estimating for Repairs and Alterations prescribed intermediate level maintenance; modernization which includes design and installation of new The Ship Maintenance and Modernization Program represents a major expense of this budget activity other mission-essential ship systems during overhaul and emphasizes upgrading defensive and offensive and technical availabilities, which provides more frequent but shorter duration depot repair periods, support to monitor ships for which everhaul cycles have been extended under the Engineered Operating account. The \$4.8 billion budgeted in FY 1990 provides for major overhauls to 15 ships, including and provides for regular overhauls, alterations, non-scheduled repairs, intermediate maintenance, herthing and messing, and technical support for the naval forces. crews during major overhaul.

Reduced funding coupled with increasing requirements have caused an overhaul backlog of 4 ships in FY 1990 and 5 ships in FY 1991. Within this backlog, 2 ships in FY 1990 and 1 ship in FY 1991 are backlogged due to a lack of Fleet Modernization Program (FMP) funding.

maintenance, repair, and minor construction for a world-wide complex of shore installations required to support fleet operational units. These installations encompass air facilities, ranges, naval stations, and support installations such as island facilities at Diego Garcia, Indian Ocean Littoral, and NATO Infrastructure costs associated with the Navy's use of NATO facilities. The Base Operations and Maintenance of Real Property programs provide support services and

Cushion (LCAC) craft in FY 1990 and twelve in FY 1991. Fleet Electronic Command and Control includes 4th (ROTHIR) site at Amchitka, Alaska, and in FY 1991, includes funding for two additional operational sites. Funding is also included for Unified and Operational Commands, Special Combat Forces, Construction Undersea Surveillance includes funding for operation of three additional TAGOS ships and related data extrapolation in FY 1990 and two in FY 1991. Funding for Contractor Engineering Technical Services Pattalion Operations, Fleet Electronic Command and Control, Undersea Surveillance, and Cruise Missile Special Combat Support funding includes the operation of seven additional Landing Craft Air quarter FY 1989 funding for deployment of the first operational Relocatable Over the Horizon Radar

### Budget Activity 2 Summary (Cont'd)

(CETS) and Navy Engineering Technical Services (NETS) are reflected in Fleet Operation Support for the first time in FY 1990. These funds were transferred from Budget Activity 7, Central Supply and Maintenance, to better align direct fleet costs.

All available audit savings have been incorporated into the following budget estimates.

# II. Financial Summary (Dollars in Thousands).

#### A. Sub-Activity Group Breakout.

		Amended	FY 1989		FY 1990	FY 1991
	FY 1988	President's	t's Appro-	Current	Budget	Rudget
~1	Actual	Budget	priation.	Estimate	Estimate	Estimate
1,5	542,764	1,363,909	1,447,434	1,437,308	1,401,880	1,424,243
	354,814	302, 651	302,872	331,006	320,770	321,433
1,86	,866,322	1,833,500	1,869,367	1,917,134	1,820,969	1,810,136
4,25	255, 281	4, 505, 293	4,490,934	4,385,325	4,850,296	4,993,792
· თ	93,287	94,300	95,039	98,367	92,139	96,310
193	192,730	383,745	384,380	381, 731	483,770	533,724
25	58,224	59,022	58, 683	62,640	65, 455	67,874
415	415,238	436,670	433,703	396,886	438,917	433,569
46	,231	43,075	42,995	43,241	42,343	44,535
31	, 784	25,474	21,435	26,322	31,958	33,965
107	, 205	93, 187	92,656	93, 075	. 96,359	97,046
10	104,582	119,208	118,647	116,439	115,888	131,950
48	489,818	378,154	373,951	391,655	348,459	362,008
1,341	341,016	1,354,990	1,319,363	1,408,402	1,512,948	1,564,351
133,	008,	0	0	68,000	0	0
18	200	000 01		11 167 531	11 622 151	11 914 936
11,03	11,033,030	10,733,110	11,001,409	11,137,1331	TCT 4770 4TT	

A MANAGEMENT OF THE PROPERTY OF THE PROPERTY OF

B. Reconciliation of Increases and Decreases:

	econcilia	Reconciliation of Increases and Decreases:	•	Amount
	1. FY 198	FY 1989 President's Budgot Request (Amended)	\$10,	\$10,993,178
	2. Congress An Inv B. An I	rentory Management Systems Systems Systems SG SE	(58, 281) -5, 131 -17, 013 2, 800 -1, 080 -9, 834 -9, 858 -16, 747 -9, 858 -16, 747 -9, 850 -2, 465 -4, 100 -2, 465 -4, 500 -4, 500 -15, 200 -15, 200	58, 281
••,	3. FY 198	FY 1989 Appropriated Amount	11,0	11,051,459
7	4. Price A. Ir 1) 2) B. Fc	Price Adjustments: A. Incremental 2.1% FY 1989 Pay Raise 1) Classified 2) Wage Board B. Foreign Currency Adjustment 68	6,246 1,074 68,000	75,320
•,	5. Function A. Tra	onal Program Transfers ansfer In Base Operations	26,500	26, 500

9	Program	Program Increases:		485,782
	1)	TACAIR/ASW Operations	20,928	
	21	Fleet Air Support	46,612	
	3)	Ship Operations	53, 499	
	4)	Ship Maintenance & Modernization	216,930	
	2)	Combat Support Forces	3,294	
	(9	Fleet Operations Support	2,548	
	7)	Other Warfare Support	5,623	
	8)	Fleet Air Training	18,616	
	6	Fleet Ship Training	1,372	
	10)		4,729	
	11)		4,048	
	12)		21,085	
	13)		86, 498	
7.	Program			-481,530
	<u>.</u>	TACAIR/ASW Operations	-31,101	
	21	Fleet Air Support	-18,487	
	3)	Ship Operations	-5,732	
	4)	Ship Maintenance & Modernization	-323,546	
	5)	Combat Support Forces	-49	
	(9	Fleet Operations Support	-5,318	
	. [7	Other Warfare Support	-1,717	
	8	Fleet Air Training	-55,584	
	6	Fleet Ship Training	-1,172	
	10)	Fleet Commands & Staff	-4,046	
•	11)	Cruise Missile	-2,208	
	12)	Maintenance of Real Property	-3,631	
	13)	Base Operations	-28,939	
œ •	FY 1989	FY 1989 Current Estimate	<b>11</b>	11, 157, 531

1,407,013	-1, 182, 416	11, 622, 151
84,439 5,107 122,982 1,018,562 3,606 58,167 1,813 1,237 5,773 1,961 1,829 1,829 1,829 1,829	-69,452 -10,666 -116,133 -804,036 -10,734 -29,331 -2,320 -25,560 -2,320 -2,520 -2,500	
11. Program Increases:  1) TACAIR/ASW Operations 2) Fleet Air Support 3) Ship Operations 4) Ship Maintenance & Modernization 5) Combat Support Forces 6) Fleet Operations Support 7) Other Warfare Support 8) Fleet Air Training 9) Fleet Ship Training 10) Unified Commands 11) Fleet Commands 12) Cruise Missile 13) Maintenance of Real Property 14) Base Operations	12. Program Decreases:  1) TACAIR/ASW Operations 2) Fleet Air Support 3) Ship Operations 4) Ship Maintenance & Modernization 5) Combat Support Forces 6) Fleet Operations Support 7) Other Warfare Support 8) Fleet Air Training 9) Fleet Ship Training 10) Unified Commands 11) Fleet Commands 12) Cruise Missile 13) Maintenance of Real Property 14) Base Operations	13. FY 1990 President's Budget Request

362,170

(8, 051) 2, 830 1, 357 3, 864 (21, 377) 10, 451 1, 101 9, 825 (89, 051) 55, 276 33, 775 125, 540 6, 338 1, 136 110, 677	-24 -100 1,071,281	63, 769 6, 426 61, 140 819, 292 4, 193 48, 737 1, 678 10, 217 1, 282 3, 251 714 14, 487 2, 389 33, 706
14. Pricing Adjustments:  A. Annualization of FY 1989 Direct Pay Raise  1) Classified  2) Wage Board  3) Foreign National Pirect Hires  1) Classified  2) Wage Board  3) Foreign National Direct Hires  C. Stock Fund  1) Fuel  2) Non-Fuel  D. Industrial Fund Rates  E. Foreign Currency Adjustments  G. Other Pricing Adjustments	<ul><li>15. Functional Transfers:</li><li>A. Transfers Out</li><li>1) Ship Operations</li><li>2) Fleet Operations Support</li></ul>	16. Program Increases: 1) TACAIR/ASW Operalions 2) Fleet Air Support 3) Ship Operations 4) Ship Maintenance & Modernization 5) Combat Support Forces 5) Combat Support Forces 6) Fleet Operations Support 7) Other Warfare Support 8) Fleet Air Training 9) Fleet Ship Training 10) Unified Commands 11) Fleet Commands 12) Cruise Missile 13) Maintenance of Roal Property 14) Base Operations

(-1, 140, 542)

yram Decreases: 1) TACAIR/ASW Operations 2) Fleet Air Support 3) Ship Operations 4) Ship Maintenance & Modernization 5) Combat Support Forces 6) Fleet Operations Support 7) Other Warfare Support 8) Fleet Air Training 9) Fleet Ship Training 10) Unified Commands 11) Fleet Commands 11) Fleet Commands & Staff 12) Cruise Missile 13) Maintenance of Real Property 14) Rase Operations	-76,052	-13,148	-118,619	-836, 031	-2,017	-17,155	-1,225	-27,374	425	-2, 168	-2, 683	-2,051	-2,144	-39,250
Ŏ,	<pre>17. Program Decreases:</pre>	2) Fleet Air Support	3) Ship Operations	4) Ship Maintenance & Modernization	5) Combat Support Forces	6) Fleet Operations Support	7) Other Warfare Support	8) Fleet Air Training	9) Fleet Ship Training	10) Unified Commands				14) Rase Operations

18. FY 1991 President's Budget Request

Activity Group: TACAIR/ASH Budget Activity: II - General Purpose Forces

### . Description of Operations Financed.

Tactical squadrons conduct strike operations against a wide range of threats identified in the national strategy and provide long range and local protection against airborne and surface threats. Anti-Submarine Warfare Squadrons locate, destroy and provide force. Warfare (ASW) forces at a level of readiness which will enable them to perform their primary mission as This program provides funds for Navy/Marine Corps Tactical Air (TACAIR) and aviation Anti-Submarine protection against sub-surface threats, and conduct maritime surveillance operations. required in support of national objectives.

This program funds the pay of civilian Aviation Intermediate Maintenance Department's (AIMD's). personnel and day to day operations at the AIMD's.

Although supplies, and Aviation Depot Level Repairables (AVDLR). The cost per operating hour for each type/model PMR levels below the 88% goal result in less than optimum readiness, deployed crews and crews in workup receive 100% PMR, while non-deployed crews fly at reduced levels. Funds requested include the cost of petroleum, oil, and lubricants (POL); organizational and intermediate (O&I) maintenance, squadron Primary Mission Readiness (PMR). The peacetime goal for PMR is 88% (including simulators). FY 1989, FY 1990 and FY 1991 PMR levels are at 878, which includes a 2% simulator contribution. aircraft is based on actual experience over the previous 18 months.

# II. Financial Summary (Dollar in Thousands).

	Budget Request	1,413,252 10,991	1,401,880 1,424,243
	FY 1990 Budget Request	1,391,164	
	Current Estimate	1,427,133	1,447,434 1,437,308
FY 1989	Appro- priation	1,437,320 10,114	1,447,434
 • • .	Amended Pres. Budget	1,353,739 10,170	1,363,909
الد	FY 1988 Actual	1,533,406 9,358	1,542,764
A. Sub-Activity Group Breakout		1. Aircraft Ops 2. AIMD	Total Activity Group

\$ in 000	1 437 300	11311300	-50, 615	511.05		,										,			84.439							ı
<i>:</i>		₹	,	(65;	15	<b>.</b>	-13	(6)	25.	3, 50		750.843).	750 105 1	15 050	(31)	(787)	(09)	•		(84.439)	1	39, 702				
ion of Increases and Decreases.	1. FY 1989 Current Estimate		ments	on of FY 1989 Direct Fay Raises	ied	Fire	National Direct	990 Direct Pay Raises	ied	ard bard	Foreign National Direct		• •			rency Fluctuation	F. Other Pricing Adjustments		ses		1) Squadron Transitions, Increase to support training requirements	for squadron transitions (new a/c).	/C Old A/C Aircrews Hours Amount	A-4M 25 6,300	F-4/A-7E 55 . 1	SH-3H 10 2, 967
B. Reconciliation of	1. FY 1989 Curred		2. Pricing Adjust	A. Annualizati	1) Classif	2) Wage Bo	3) Foreign	B. FY 1990 Diz		2) Wage Board	3) Foreign	C. Stock Fund	1) Fuel	2) Non-Fuel	D. FN Indirect	E. Foreign Cur	F. Other Prici		<ol><li>Program Increases</li></ol>	A. Other Progr	1) Squadro	for squ	New A.	AV-8B	F/A-18C	SH-60F

Amount 6,489 7,158 4,204

Hours 2,952 3,473 6,165

Old A/C F/A-18A S-3A AH-IW

New A/C F/A-18C S-38 AH-1J/T

Squadron Upgrades. Increase to support training requirements for squadron upgrades (new a/c).

2)

8

\$ in 900					-69, 452	
<b>.</b>	7,381	5,741	1, 415 950	7,202 4,119 0s. 78	(-69, 452) -34, 991	
Reconciliation of Increases and Decreases (Continued).	3) SH-60B (LAMPS MK III). Increased training requirements of 7,927 hours for 26 additional aircrews required for SH-60B squadrons. 4) F/A-18D (HORNET). Introduction of 12 aircrew and 8 aircraft and increase of 3,288 hours to fulfill training and operational requirements for under-the-weather attack, photo	reconnaissance, and forward and tactical air control missions.  The forward and tactical air control mission was previously performed by the A-4 squadron in Fleet Air Support.  5) AV-8B (HARRIER). Increase of 1,112 hours for the AV-8B as the required hours per crew per month increase from 21 to 25 hours to sunger training required from the	introduction of AV-88 Night Attack Version.  6) EA-6B (PROWLER). Increase of 554 hours in support of training requirements for 6 additional aircrew.  7) CH-53E (SUPER STALLION). Increase of 4,325 hours to support	increased deployment of CH-53E's on LhAs and a change in the utilization mix of CH-53E, CH-53D and CH-46E aircraft.  8) Increase of 3,349 hours to reflect execution changes in squadron aircraft utilization experience.  9) Increased maintenance of new avionics, other complex equipment and intermediate level maintenance for engine repairs at the AIMDs.	<ul> <li>4. Program Decreases</li> <li>A. Other Program Decreases in FY 1990</li> <li>1) Squadron Transitions. Decrease in training requirements         associated with squadron transitions (old a/c).</li> </ul>	New A/C         Old A/C         Aircrews         Hours         Amount           AV-8B         A-4H         -27         -4,037         -3,864           F/A-18C         F-4/A-7E         -51         -13,861         -25,733           SH-60F         SH-3H         -10         -6,859         -5,394
<b>=</b> 1						

\$ in 000

concilia	Reconciliation of Increases and Decreases (Continued).	
2)	Squadron Upgrades. Decrease in training requirements to support squadron upgrades (old a/c).	-17,078
	New A/C	
3)	Aircrew Decreases. Decrease of 16 aircrew and 1,349 hours in training requirements for F-14, A-6, and RF-48 aircrews.	-3,431
F	deployment of CH-53E on LHAs and change in the utilization mix of CH-53E, CH-53D and CH-46E aircraft.	-7,253
2)		-5,555
9	Decrease in funding for Persian Gulf Operations.	1177
Y 199	FY 1990 President's Budget Request	

,		34,646
<u>.</u>	<ul> <li>Firsting Adjustments</li> <li>A. Annualization of FY 1990 Direct Pay Raises</li> </ul>	(25)
	1) Classified	ع م
	2) Wage Board	5 5
	3) Foreign National Direct	/TL
	B. FY 1991 Direct Pay Raises	100}
	1) Classified	000
	2) Waqe Board	2.5
	National Direct	31
		(34,420)
		. 711
	- 1	316
	100   100	(29)
	D. PN INGIECC NIE	(56)
	R. Other Pricing Adjustments	

1,401,880

\$ in 000 63,769 (24)				
(24)	35, 304	13, 367	3,953	9,487 1,454 Ds. 180
<ul> <li>B. Reconciliation of Increases and Decreases (Continued).</li> <li>7. Program Increases</li> <li>A. One-Time FY 1991 Costs</li> <li>1) Increase of one additional civilian personnel workday.</li> </ul>	B. Other Program Growth in FY 1991  1) Squadron Transitions. Increase in training requirements to support squadron transitions (new a/c).  New A/C Old A/C Aircrews Hours Amount AV-8B A-4H 27 5,035 6,435	F/A-18C A-7E 54 13,152 SH-60F SH-3H 19 6,486 5,112  2) Squadron Upgrades. Uncrease in training requirements to support squadron upgrades (new a/C).  New A/C Old A/C Aircrews Hours Amount	SH-2F SH-2G 4 1,139 1,228  SH-2F SH-2G 4 1,139 1,228  AH-1T AH-IW 13 3,943 3,201  SH-6OB (LAMPS MK III). Increased training requirements of 4,167  hours for 17 additional aircrews required for SH-6OB squadrons.  F/A-18D (HORNET). Introduction of 22 aircrews and 16 aircraft and an increase of 6,058 hours to fulfill training and operational requirements for under-the-weather attack, photo	reconnaissance, and forward and tactical air control missions.  The forward and tactical air control mission was previously performed by the A-4 squadron in Fleet Air Support.  5) Aircrew Increases. Increase of 8 aircrews and 1,024 hours in A-6, E-2C, and EA-6B squadron aircrews training requirements.  6) Increased maintenance of new avionics, other complex equipment and intermediate level maintenance for engine repairs at the AIMDs.

8. Program 8. Program 1) D B. Other 1) S 2) S 3) S 4) S 5) S 5	\$ in 000	-76,052				1,424,243
8. Program Decreases and Decreases (Continued).  1. Decrease in FNI Hire Benefits. 1. Decrease in FNI Hire Benefits. 1. Squadron Transitions. Decrease in training requirements associated with squadron transitions (old A/C).  New A/C Old A/C Aircrews Hours Amount AV-8B A-4B A-4B -27 -3,183 -3,122 AV-8B SH-6F SH-3H -19 -2,485 -1,493  2) Squadron Upgrades. Decrease in training requirements associated with squadron upgrades (old A/C).  New A/C Old A/C Aircrews Hours Amount SH-3G SH-3G SH-3G SH-2G SH-2F -9 -2,378 -2,292 SH-3G SH-2G SH-2F -9 -2,378 -2,292 AV-10A, and RF-4 squadron aircrew training requirements.  4) Decrease of 2,535 hours to reflect execution changes in squadron aircraft utilization.  5) Decrease in civilian personnel (-9 E/S).  6) FY 1991 President's Budget Request		(-9) -9 (-76,043) -26,608	-17,128		-21,794 -10,387 -126	
ക്	B. Reconciliation of Increases and Decreases (Continued).	8. Program A. One- 1) B. Othe	V., 2	Old A/C Aircrews Hours S-3A -19 -6,598 - SH-2F -9 -2,378 AH-IW -13 -4,149		9. FY 1991 President's Budget Request

#### III. Performance Criteria.

to directly relate performance to budget requests. The Department of the Navy is conducting a evaluation of the determination of training requirements and development of readiness indicators, as well as contributing to an overall DoD study to develop objective linkage between flying hours and indicators of operational performance. It is anticipated that these readiness indicators will be reflected in the FY 1992/1993 President's Budget Request. is currently under review by the Department of Defense in an effort to develop readiness indicators Pursuant to House Report 110-563 of 5 April 1988, the performance criteria for aircraft operations

Ä

	42	1,528		Cost (\$000) 1,413,252	1,504
FT 1989	Flying Hours 934,215 1		FT 1991	Flying Hours 939, 513	409
	Average Operating Aircraft 2,316			Average Operating Aircraft 2,396	
	cost (\$000)	1,701		Cost (\$000) 1,391,164	
FY 1988	Flying Hours 901, 385	066	FT 1990	Flying Hours 942,043	407
-	Average Operating Aircraft 2,313		_	Average Operating Aircraft	
Aircraft Operations		Hours per Aircraft Cost per Hour			Hours per Aircraft Cost per Hour

Activity Group: Fleet Air Support Budget Activity: II - General Purpose Forces

## 1. Description of Operations Financed:

This program provides funds for those support functions necessary to achieve and maintain the required operational capabilities of fleet squadrons, as follows:

and shorebased air logistic support, and special operational Last and evaluation support. Funds requested Provides flying hours for electronic warfare (EW) services, aggressor aircraft, ship maintenance, aviation depot repairables, and squadron supplies. The cost per operating hour for each include the cost of petroleum, oil, and lubricants (POL); organizational and intermediate (OGI) type/model aircraft is based on actual experience over the previous 18 months. Flying Hours.

Air TAD. Funds for Temporary Additional Duty (TAD) requirements in support of operational missions of TACAIR/ASW and other support squadrons including transportation, per diem and miscellaneous expenses.

For example, Individual Material Readiness List (IMRL) outfitting funds are used to finance initial issues of Ground Support Equipment. These items are used by aviation activities to perform organizational and operation and maintenance of drones, and transportation of squadron supplies/equipment during squadron Includes costs not specifically identifiable to the flying hour program. intermediate levels of aircraft maintenance. The IMRL is a tailored allowance list which is updated annually to support modified equipment or the introduction of new or additional aircraft/system. The rotations are included in this activity group. Other Aircraft Support.

# 11. Financial Summary (Dollars in Thousands).

#### A. Sub-Activity Group Breakout.

		Amended			FT 1990	FY 1991
	FY 1988	Pres.	Appro-	Current	Budget	Budget
	Actual	Budget	priation	Estimate	Request	Request
<ol> <li>Aircraft Ops</li> </ol>	227,453	190,002	189,998	218, 155	208,991	208, 101
2. Air TAD	48,960	39,966	39,904	39,904	39,071	38,975
3. Other A/C Support	78,401	72, 683	72,970	72,947	72, 708	74,357
Total	354,814	302, 651	302,872	331,006	320,770	321,433

m	Rec	Reconciliation of Incresses and Decreases.		\$ in 000
	_	ry 1989 Current Estimate		331,006
				-4.677
	2.	Pricing Adjustments	(4)	•
		A. Allindalización de la 1900 menora 1900	<b>47</b>	
		B. FY 1990 Direct Pay Raises	(T)	
		1) Classified	(-6.928)	
		C. Stock Fund	-4,582	
		1) Fuel	-2,346	
		Z) Non-tuel 2 - Cond Dates	(43)	
		D. Industrial Fund nates E. Other Pricing Adjustments	(2, 193)	
				5,107
	~;	Program Increases	(5, 107)	
		A. Other Program Growth in I. 1.200		
		1) Increase of 1,042 Hours for minesweening mission requirements.	1,384	
		Z) Increase for marcriar costs and control of	1,355	
		maintenance requirements.		
		3) Increased conclude maintenance compared to the conclusion of th	2,368	
		aircraft.		
	•	Decreases		-10,666
	T	Flogian Decreases in FY 1990	(-10, 666)	
		b. Other register of 1 40% hours in A-4 squadron associated with the		
		introduction of the F/A-18D aircraft in TACAIR to fulfill the	4	
		forward and tactical air control mission.	-2,059	
		2) Decrease of 989 hours for RH-53D aircraft as replaced by the	-1,865	
		MH-53E aircraft to support minesweeping mineson.	-2,401	
		3) Decrease of 2,39/ hours in AH-40 mission requirements.	-1,760	
		4) Net decrease in Fleet All Support mission requirements.	•	
		4) Reduction in aviation unit in article.  operational mission support for weapons detachments, and	-1.122	
		maintenance detachments for deployed squadrons.	777 14	

Reconciliation of Increases and Decreases.		\$ in 000
Decrease in of commercial air services contracts to include towing of airborne targets, performing as targets for radar and fire control training, coordinating exercises and simulating enemy aircraft.  Decrease in Civilian Personnel (-1 E/S)	-1,440	
FY 1990 President's Request		320,770
Pricing Adjustments A. Annualization of FY 1990 Direct Pay Raises 1) Classified B. FY 1991 Direct Pay Raises 1) Classified C. Stock Fund 1) Fuel 2) Non-Fuel D. Industrial Fund Rates	(4) (17) (17) (4, 745) 2, 277 2, 468 (629)	7, 385
E. Other Pricing Adjustments Program Increases A. One-Time FY 1991 Costs I) One additional civilian personnel workday. B. Other Program Growth in FY 1991 Geployment onboard the LHD-1. I) Initial outfitting requirements for VFA squadron for deployment onboard the LHD-1. I) Increase of 3,941 hours for electronic warfare requirements as ES-3A begins replacement of EA-3/TA-3 aircraft. I) Increased contract maintenance costs for the CT-39 and UC-12 aircraft.	(3) 3 (6,423) 1,503 4,466	6,426

ж.	Rec	oncili	Reconciliation of Increases and Decreases.		\$ in 000
	œ	Program	Decreases		-13,148
		A. Ot.	Program Decreases in FY 1991	(-13, 148)	
		1	Reduction of 4,384 hours in A-4 squadron associated with the		
		•	introduction of the F/A-18D aircraft in TACAIR to fulfill the		
			forward and tactical air control mission.	-5,200	
		2)	Decrease of 1,506 hours for electronic warfare requirements	•	
			as ES-3A begins replacement of EA-3/TA-3 aircraft.	-3,433	
		3	Net decrease in Fleet Air Support requirements.	-1,948	
		4	Reduction in aviation unit TAD deployments to range sites.	-338	
		5	Net decrease in commercial air services contracts to include		
		•	towing of airborne targets, performing as targets for radar and		
			fire control training, coordinating exercises and simulating		
			enemy aircraft.	-1,538	
		6	Decrease in Initial Material Readiness Support (IMRL) in		
		•	support of ground support equipment, new mircraft systems, and		
			other aircraft support.	-616	
		(1	7) Decrease in Civilian Personnel (-3 E/S)	-75	
	9.	FY 1991	11 President's Request		321, 433

Activity Group: Fleet Air Support (Continued)

Performance Criteria.

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Cost (\$000) 208,108 (\$000) 218,155 1,051 1,021 Cost FT 1991 1, 591, 849 339 13,085 FT 1991 11,757 10,187 8100 1,570 FT 1989 Flying Flying Hours 203,812 Hours 207,659 FT 1991 FY 1990 1, 604, 924 336 611 13,070 Operating Operating Aircraft 479 Aircraft 472 Average Average FY 1990 11, 750 1,563 0 21 21 335 61 i FY 1989 1,636,525 13,065 1,012 1,063 (\$000) (\$000) 227,454 Cost 11,674 1,592 10,082 22 0 FY 1989 22 Flying Flying Hours 213, 988 206,533 Hours 12, 633 335 611 FY 1988 FY 1990 FY 1988 2,042,163 FY 1988 10, 693 1,364 9,329 24 24 Operating Operating Aircraft Aircraft Average Average 467 482 Units Receiving IMRL Items A. Aircraft Operations Hours per Aircraft Hours per Aircraft TAD Per Diem Days SAAM Flying Hours Drones Maintained Cost per Hour Cost per Hour IV. Personnel Summary. Military E/S Civilian E/S Enlisted Officer USDH FNDH FNIH <u>ت</u> :

Operation & Maintenance, Havy Department of The Navy

General Purpose Ship Operations II- General Purpose Forces Budget Activity:

## Description of Operations Financed

This program provides resources for operating tempo, organizational level repairs, training exercises and associated support required to continuously deploy fully combat ready ships in support of national objectives and to ensure control of the sea.

The General Purpose Naval Force is comprised of 503 units in FY 1990, including 15 aircraft carries, Naval Force is comprised of 495 units, including including 15 aircraft carriers, 4 battleships, 174 surface combatants, 97 submarines, 62 amphibious force ships, 12 patrol boats and mine warfare ships, the surface combatants, 97 submarines, 62 amphibious force ships, 12 patrol boats and mine warfare ships, the surface combatants, 97 submarines, 62 amphibious force ships, 12 patrol boats and mine warfare ships, the surface combatants, 97 submarines, 62 amphibious force ships, 12 patrol boats and mine warfare ships, the surface combatants, 97 submarines, 62 amphibious force ships, 12 patrol boats and mine warfare ships, the submarines of the submarines o combat logistic ships and 70 support force ships. Funding provides fossil fuel, utilities, supplies and In FY 1991 the General Purpose equipage (S&E), nuclear material consumption and nuclear core reprocessing and charter of lease back 4 battleships, 183 surface combatants, 97 submarines, 63 amphibious force ships, 13 patrol and mine 60 combat logistics ships and 68 support forces ships.

Ship's Fuel - includes ship propulsion fuel to operate the main engines of the conventionally powered ship's, auxiliary diesel engines of nuclear vessels, auxiliary equipment and small boats.

utilities (excluding telephone and garbage removal) incurred by active fleet ships and certain centrally sewage treatment and other Ship's Utilities - includes the cost of steam, electricity, water, managed service craft while partially or totally "cold iron" in port.

Supplies and Equipage (S&E) - includes repair parts and other operating target costs:

Organizational level maintenance is that Repair Parts (organizational maintenance) funding provides parts and repair related consumables corrective and preventive maintenance accomplished by the ship's crew. This is the lowest level of maintenance achievable, is cost effective in that the ship's work force performs the repairs, and is required to accomplish organization level equipment maintenance. directly related to the readiness of the operating units.

Other Operating Target (OPTAR) funding includes administrative and housekeeping items; and items

related services provided by commercial or other non-naval forces; and the cost of material purchased for damage control pumps and blowers; labor saving devices such as power tools, office machines, duplicators; general purpose test equipment; Automated Data Processing (ADP); the cost of tuge, pilotage, and other having a limited life such as lubricants, boiler compound, and bilge cleaner; equipage items, such as medical and dental purposes.

CATGO resupply for ships on station in operating areas, oilers (TAOs) which provide complete replenishment Forces and take in tow Navy ships which have battle damage or are otherwise inoperable, and the ammunition helicopoters. Leaseback costs include maritime crew salaries, fuel ship repairs, supplies and equipage, of petroleum products at sea, ocean tugs (TATFs) which operate as units of the Mobile Logistics Salvage Leaseback (Charter) includes costs associated with leasing stores ships (TAFS) which provides dry conversion as applicable, and administrative expenses. Other charter services include leased tanker support for forward deployed units, deep submergence support and lease the lease of commercial tugs. ship (TAE) which provides rapid transfer of missiles and other munitions to ships alongside or with

Nuclear Material funding provides reimbursement to U.S. Department of Energy (DOE) for consumed nuclear material and cost of reprocessing expended nuclear cores.

# . Financial Summary (Dollars in Thousands).

			EX TARA				
		Amended			FY 1990	FY 1991	
	FT .1988	Pres.	Appro-	Current	Budget	Budget	
	Actual	Request	priation	Estimate	Request	Pequest	
Fuel	961,909	593,093	592,076	626,446	534,977	541,755	
Utilities	192,659	183,034	182,708	199,991	210,647	210,863	
Repair Parts	467,176	417,661	432,257	433,088	419,623	411,746	
Other OPTAR	300,680	245,815	255, 533	255, 229	264,856	253, 629	
MSC Charter	303,574	344,690	357,496	353,083	304,536	328,287	
Nuclear	54,755	49,297	49,297	49,297	86,330	63,856	
Total Act. Group	1,925,640	1,833,500	1,833,500 1,869,367	1,917,134		1,820,969 1,810.136	
Less Fuei Credits	-59, 318						
Adjusted Total	1,866,322	1,833,500	1,869,367	1,833,500 1,869,367 1,917,134 1,820,969 1,810,136	1,820,969	1,810,136	

wint	1,917,134	-102,390	-24	122,982		
Reconciliation of Increases and Decreases.	FY 1989 Current Estimate	Pricing Adjustments  a. Stock Fund  (1) Fuel  (2) Non-Fuel  b. Industrial Fund Rates  c. Other Pricing Adjustments	Functional Program Transfers  a. Transfers Out  1) Intra-Appropriation  a) Standard Level User Charge funds to rent commercially leased space transferred to Budget Activity 9, Base Operations Support, for direct payment to General Services Administration Federal Building Fund.	Frogram Increases	Annualization of FY 1989 Increases.  1) Phased delivery of 9 new ships and reactivation of one BB in FY 1989 for which a full ship year of support is required in in FY 1990.  2) Phased delivery of two new TAO's for which 12,955 a fuil charter year is required in FY 1990 (TAO 191 +156 and TAO 195 +242 per dien	Other Program Increases in FY 1990. (103,114)  1) Program increase for repair parts and 16,603  other optar support associated with the the phased delivery of 15 new construction ships including one CVN, 3 CG's, 4 SSN's, 5 MCM's and 3 LSD's.
Reconciliation	1. 3	2. PY. PY. PY. C.	<u>ب</u>	. <b>.</b>	r <b>i</b>	<b>.</b>
₩.						

7	2) Program increase to support the phased 11,848 delivery of 3 TAO's and associated increase of 364 charter days. (TAO 192 +62,	48
TA 3) In	TAO 194 # 25, and TAO 197 #277). Increased fuel and utilities costs 38,141 associated with the requirement to	### ####
e go ar	support 124 additional conventional ship operating months and 38 additional nuclear ship operating months due to a decrease in ship maintenance availabilities in	
- <del>-</del>	livery costs for orientation f essential crew personnel manual support prior to	210
 	Snip delivery.  Program increase to support a larger 35,357 and more complex mix of nuclear core reprocessings. Four additional	57
. G	reprocessings are scheduled for files.  Increase in time charters for commercial 95  tugs and tows based on FY 1990 operational requirements.	955
C HE	Program Decreases	-116,133
nun (	Annualization of FY 1989 Decreases  1) Phased retirement of twelve ships (1 FFG, -6,413	81) . 13
2) 1	refer, 3 pen 8 dud i moof in ri-1903. Transfer of three ships to the Navy Reserve2,468	. 89
ne-1	(1 FF, FFG, and 1 MCM). One-time FY 1989 Costs.  1) Pre-delivery costs for TAO 192, TAO 195, -630 and TAO 197.	30 <b>)</b> 30
othe 1) I	Other Program Decreases in FY 1990. (-106,622)  1) Reduction to USN force levels and -47,643	22) 43
2) F	and operating tempo in the Persian Gulf and North Arabian Sea in FY 1990. Phased retirement of 14 ships in FY 1990 -6,514	14

(cont'd)

1) Phased delivery of 16 new construction

g of of		24, 196	(29, 841) 7, 126	13,527	210 8, 978
	ships in FY 1990 including one CVN, 3 CG'S, 4 SSN's, 3 LSD's and 5 MCM's for which a full year of support is required in FY 1991	-	Other Program Increases in FY 1991.  1) Program increase for repair parts and other optar support associated with the phased delivery of 13 new construction ships including 3 CG's, 5 SSN's, 1 DDG, 1 ADE, 2 MCM's, and 1 MHC.		

(-15,804)	-7,054	i c	-3,221		-5, 523	(-210)	-210	(-102,805)	-12,194	
10. Program decreases.	1) Phased retirement of 14 ships (2 AO's,	2 DDG's, 3 LSD's, 4 SSN's and 3 SS's).	2) Transfer of 2 FFG's and 1 LST to the	Navy Reserve in FY 1990.	<ol><li>Retirment of TAO 106 in FY 1990.</li></ol>	b. One-time FY 1990 decreases.	1) TAO 194 predelivery costs.	c. Other program decreases in FY 1991.		and 5 SSN's.)

118,819

-605	-25,064	-21,203	-6,489	-1,092	-1,256	-16,165	-3, 197	-15,540
Transfer of 4 MCM's and one LSD to the Navy	nuclear cores are scheduled to d for reprocessing by DOE in	action to fuel and utilities requirement to support 54 ntional ship operating months	in FY 1991.  Transfer of TAO 143 from a partially reduced in FY 1990 to a fully reduced	operating status in F1 1991. Reduction to the per diem day funding of the Indian Ocean readiness tanker to match resources to projected FY 1991	requirements. Reduction in time charters for commercial tugs and tows based on projected FY 1991	ted	Navy Stock Fund fuel purchases.  Decrease in optar and repair parts costs due to projected efficiencies to be achieved in the management and turn-in	of excess supplies and materials. General decrease in support for material replacement items, such as mooring lines, life jackets, damage control equipment repair parts, and direct turnover material used to perform corrective and preventive organizational level maintenance.
2)	3)	4		(9	7.	8	(6	10)

11. FY 1991 President's Budget Request

### 111. Performance Criteria.

supported, the average number of surface ships deployed, and the estimated number of exercises to be conducted in each year of the budget have been added to the table below to assist in relating the Pursuant to House Report 110-563 of 5 April 1388, the performance criteria for ship operations have Navy's resource requests to steaming and training goals. Additional measurements that more precisely tie ship steaming to fleet mission readiness are presently being studied by the Navy in support of a larger Department of Defense Study in this area. It is anticipated that these study efforts will be completed by the end of Fiscal Year 1990. have been expanded to include additional measurements that relate resource expenditures to the Navy's steaming day requirements. Specifically, the number of ship operating months to be Ź.

FY 1991 441	21,863	446.6 334.2 112.4	4,695 3,542 1,153	1, 059, 335 765, 974 293, 361	82	311 6 305
FY 1990 451	22,745	454.6 342.7 111.9	4,662 3,596 1,066	1,076,944 800,584 276,360	. 82	309 7 302
FY 1989 452	22,947	456.4 345.3 111.1	4,500 3,472 1,028	1,080,534 806,597 273,937	88	319 7 312
FY 1988 457	72,227	463.7 353.4 110.3	4,514 3,524 990	1,114,748 852,788 261,960	06	303 7 296
Ship Inventory	Barrels of Fossil Fuel Required (000)	Ship Years Supported Conventional Nuclear	Ship Operating Months Supported Conventional	Underway Steaming Hours Conventional Nuclear	Average Number of Surface Ships Deployed	Estimated Exercises to be Conducted Major Minor

Activity Group: General Purpose Ship Operations (cont'd)

Maintenance Manhours Required (000)		65,744	65,802		65, 795	65,144
Maintenance Manhours Funded (000)		56,384	54,238	•	54,680	54,991
Nuclear Cores returned to be reprocessed/cost (\$M)	о (\$М)	10/46.3	7/40.1		11/76.7	6/53.7
Nuclear Material Consumption Submarines (\$000) Surface Ships (\$000)	tion	9,371 5,424 3,947	9, 197 5, 814 3, 383		3,866	10, 151 6, 883 3, 268
Per Diem Days Chartered: Active Fleet Support Reduced.Operating Status Inactivation	atus	9,913 9,913 0	10,552 10,552 0		11,314 9,708 1,561 45	11,797 10,193 1,469 135
Deep Submergence Support (Charter Unit)/(\$000)	_	2/6,050	2/6,534		2/5,513	2/4, 286
<pre>Tanker Support for CVBG's (Charter Support) (\$000)</pre>	8 000)	7,980	4,284		3,380	2,288
Amphibious/Console Support (Charter) (\$000)	rt	655	755		800	778
<pre>IV. Personnel Summary. End Strength (E/S)</pre>	FY 1988	FY 1989	FY 1990	FY 1991		
A. Military Officer Enlisted	$\frac{188, 192}{12, 187}$ 176, 005	203, 794 11, 651 192, 143	206, 420 12, 120 194, 300	205, 706 12, 179 193, 527		

Department of the Navy Operation and Maintenance, Havy

Activity Group: Ship Maintenance and Modernization Budget Activity: II General Purpose Forces

## . Description of Operations Financed

This program funds depot and intermediate level maintenance and associated support for the General Purpose Forces as follows: Regular Overhaul. This category includes maintenance performed by the shipyards on ships and material requiring major overhaul, or complete rebuilding of parts, assemblies, subassemblies and end items and The repairs restore the ship, including all operating subsystems which correction of all discrepancies found during pre-overhaul tests and inspections or developed from affect safety or current combat capability, to established performance standards. maintenance history analysis.

service craft overhauls, repairs during post shakedown of new units, interim drydockings, battery renewals which period the ship is rendered incapable of fully performing its assigned mission and tasks due to the nature of the repair work. A technical availability (TAV) is for the accomplishment of specific items of work by a repair activity, normally without the ship present, during which period the ship's ability to fully perform its assigned mission and tasks is not affected by the nature of the repair work. RA/TA repairs relected restricted availabilities, phased maintenance availabilities, accomplishment of specific items of work by a repair activity, normally with the ship present, during Restricted and Technical Availabilities (RA/IA). A restricted availability (RAV) is for the and various other miscellaneous type repairs.

there is a need for the improvement and that the particular installation will accomplish that improvement. Fleet Modernization Program. The Fleet modernization program for General Purpose forces is designed to upgrade ships of the fleet to be mission capable in countering current and projected threats, improve coincide with equipment deliveries and ship availabilities. Funding includes cost of preliminary design, installation. Alterations are authorized for a ship or ship type after it has been demonstrated that capabilities, and comply with imposed requirements. Installation of improvements are programmed to preparation of blue prints, installation of equipment and updating of ships records to reflect the

outfitting support for active ships, Navy owned equipment installed aboard Coast Guard ships, and other selected or unique outfitting programs as required. Support is provided for outfitting and allowance changes resulting from installation of new equipment, modification of equipment, special equipage programs, revision of allowance parts lists and allowance equipage lists, modification of allowance Outfitting. The general purpose forces outfitting account provides non-aviation and follow-on computation rules, and other approved allowance changes.

Support ensures ships remaining funding in the outfitting sub-activity group supports Integrated Logistics Overhauls (ILO) and appropriation in order to ensure consistency in the Department's budgeting procedures for initial spanes procurement account. This action complies with direction in the FY 1989 DOD Appropriation Act. The since the ship's outfitting account is the only initial spare account not funded in the appropriate analyzes configuration information, corrects imbedded errors, and accurately documents provisioning are outfitted with the right repair parts, technical documentation, and PMS coverage. ILO support In FY 1989, the Outfitting program is functionally transferred to the Other Procurement, Navy Integrated Logistics Review (ILR) of ships going through major maintenance periods. data for onboard equipment/systems.

facilities. Requirements for the craft are based on the need to accommodate shipboard personnel assigned facilities from commercial sources or government quarters. In addition, funding in this program finances requirements which can not be met by use of the craft are fulfilled by the lease of berthing and messing to ships undergoing repair and alteration when ships are made uninhabitable due to shipwork. Any Berthing and Messing provides for operation and maintenance of 98 mobile berthing and messing overhaul, repair, and drydocking of affoat berthing and messing service craft.

manufacturing casting sections, bending and installing tubes, and installing refractory. All afloat IMAS are assigned divers who scrub sea growth from ships and perform repairs to the external underwater hull, actions aboard a customer ship or use their own organic snop facilities to repair and maintain equipment Intermediate Level Maintenance is that fleet maintenance which is normally performed by Navy personnel on a ship-to-shop basis. IMAs are assigned to repair and test weight handling equipment, repair small engraving, canvas work, strainer shield manufacture, and certain IMA designated preventive maintenan. boats, repair service craft, and overhaul small boat engines. IMA boiler repair capability includes propellers, and rudders. Indee also provide such services as printing, photography, optical repairs, on tenders, repair ships, aircraft carriers, and shore intermediate maintenance activities (SIMAs). IMAs use either their specialized equipment and specialized skills to perform maintenance

Inactivation of Ships provides for the inactivation and disposal of nuclear submarinas and surface vessels according to established schedules. The program also supports temporary lay-up of submarines and surface ships. Costs of submarine inactivations include de-fueling, blanking of sea connections, removing hazardous materials and fluids, removing equipment and repair parts of immediate value to operating forces, and placing the ship in a safe condition until the final disposal method is determined.

# Maintenance Improvement Support includes:

under these maintenance strategies to the maximum extent practical without degrading material readiness of implementing engineering, technical, and logistic support approaches to extend the ship operating cycle Surface Ship Maintenance and Performance Monitoring System which supports placing and maintaining various designated surface ship classes on engineered maintenance strategies, and for devising and These maintenance strategies result in fewer ship overhauls or the elimination of ship overhauls in some cases.

Intermediate Maintenance Activity Upgrade program which provides required general engineering and analysis, modern industrial plant equipment, and collateral equipment necessary to ensure the proper installation of equipment.

Submarine Ship System Performance Monitoring and Support (SSSPMS) provides engineering/technical management and logistics support for nuclear attack submarines which have extended operational intervals between major overhaul.

Acoustic Trials of submarines following an overhaul or depot modernization period and at the midpoint of each ship's operating cycle. These trials provide the basic data from which the noise baseline characteristics of each ship may be obtained. In addition, noise related problems are identified and corrective action is taken.

Planning and Engineering For Repair and Alterations for Submarines and Surface Ships. The three Planning and Engineering for Repair and Alterations (PERA) detachments for surface ships and the Submarine Maintenance, Engineering, Planning and Procurement (SUBMEPP) detachment for submarines perform a myriad of engineering technical, and logistic tasks. These efforts transferred from Budget Activity 7 in FY 1990. II. Financial Summary (Bollars in Thousands)

### A. Sub-Activity Group Breakout:

			FI 1989		1000	. 1991
	1000	Amended	Appro-	Current	Budget	Budget
	Actual	Budget	priation	Estimate	Request	Request
		200 366	185	1 033 477	1,249,585	1.542,085
Ship Overhauls	1,128,692	120,010	2, 846, 831	1,782,064	2,002,704	1,827,092
Restr./Tech. Avail	250 185	120,050	211.440	269,000	272,211	263,305
Intermediate Maint.	042 664	1 045 042	1.127.262	,-	1,613,322	1,027,812
Fleet Modern, Program	306, 969	319,246	0		8,818	8,856
Outfiting	1001000			•		
	•	·C	9	0	19,130	19,649
Engineering For Repairs	137 15	39,846	39.780	39,747	35,032	36,178
Berthing/Messing	20, 701	30,873	30,577	29,008	34,150	36, 267
Submarine EOC	74 330	90,641	90,318	87,477	143,391	157,700
-	24, 132	. FUE 303	69, 206	65,764	71,953	74,848
Maint. Improve. Supt.	04,337	505 700				
Total Activity Group	4,255,281	4,505,293	4,484,599	4, 385, 325	4,850,296	4, 993, 792

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Amount \$4,385,325	251, 397	-892
	(223) 116 96 11 (232) 181 28 23 (-1,753) -14 -1,739 (168,087) (14,290) (70,318)	(19, 165) 19, 165
Reconciliation of Increases and Decreases  1. FY 1989 Current Entimate	2. Pricing Adjustments A. Annualization of FY 1989 Direct Pay Raises 1) Classified 2) Wage Board 3) Foreign National Direct Hires B. FY 1990 Direct Fay Raises 1) Classified 2) Wage Board 3) Foreign National Direct Hires C. Stock Fund 1) Fuel 2) Non-Fuel D. Industrial Fund Rates F. Foreign Currency Adjustments G. Other Pricing Adjustments	3. Functional Program Transfers A. Transfers In 1) Intra-Apprepriation a) Transfer of the Submarine Maintenance, Engineering, Planning and Procurement (SUBMEPF) and the Planning and Engineering for Repairs and Alterations (PERAs) programs from Budget Activity 7 - Central Supply and Maintenance ensures consistency with Department- wide budget and funding policy aimed at consoli- dating efforts which provide management support for ships availabilities and modernization. SUBMEPP is located in Portsmouth, NH., while PERA detachments are located in Philadelphia, PA. (Cruiser/Destroyer Det), Norfolk, VA. (Auxiliary Service Craft Det), San Francisco, CA. (Combat Service Craft Det), and Bremerton, WA. (Aircraft Carrier Det). The transfer includes funding

	1,018,562
-20,057) -98 -19,359	(1,018,562) 2,267 17,631
B. Transfers Out  1) Intra-Appropriation 2) Standard Level User Charge (SLUC) transfer 2) to the Federal Building Fund due to recent 2 space changes occurring at the PERA Air- 2 craft Carrier (CV) Detachment at Bremerton, MA.  b) Transfer of resources for design engineering 2 efforts performed at the SUPSHIPS activities 3 to Budget Activity 7 - Central Supply and Maintenance.  Adjustment reflects the transfer of resources 3 from reimbursable customers to SUPSHIP direct 3 mission funding. Design engineering is a direct 3 mission responsibility of the SUPSHIPs and 3 should not be funded on a reimbursable basis.  c) Transfer to Budget Activity 7 to reflect 3 the conversion of contracted advisory and assistance 3 services to in-house performance to reduce the 5 risk of compromise to the acquisition procurement 5 process. Recent examination by the Naval	fundating the service and by the many inspector general have shown that excessive contractor involvement contains the potential for disclosure of sensitive information and improper preparation of specifications or processing of procurement documentation.  4. Program Increases  A. Other Program Growth in FY 1990  1) Increase required for emergent repairs due to an increase in operating months between FY 1989 and FY 1990.  2) Increase in Service Craft and Deep Submergence Vehicle overhaul/repair funding due to an increase of one overhaul, a change in the mix of overhauls, and advance funding for the FY 1991 overhaul of NR-1.

#### Activity Group: Ship Maintenance and Modernization (cont'd)

Increased funding required for Phased Maintenance Availabilities (PMAs) due to a change in the mix of ships undergoing maintenance including an increase in the number of docking vice non-docking	49,976
dvalled littles. 4) Increase in fleet Post Shakedown Availability (PSA) requirements due to 6 more PSAs scheduled in FY 1990	3,382
Chair of 1909.  5) Growth in Intermediate Maintenance Activity (IMA) workload based on an increase in the number	12,857
6) Increase in Other Planned RA/TA, primarily attributable to major Restricted Availabilities (RAVS) on USS LASALLE (AGF-11), USS WISCONSIN	11,360
Increase required for habitability improvements on 98 ships in FY 1990 vice 70 ships in FY 1989. Many of these improvements are required as a result of ship configuration changes generated by Vertical Launch System (VLS) and New Threat Upgrade (NTU) installations, as well as upgrades rquired on auxiliary ships resulting	8, 140
from the new initialize to pur women on surps.  8) Increase for supplies and equipment repair and replacement required to sustain increased Shore Intermediate Maintenance Activity (SIMA) workload	1,441
requirements.  9) Increase in personnel benefits due to Federal	28
Employee Relieved by Steam (FERS) participation:  10) Increase required for Selected Restricted  Availabilities (SRAs) due to a net increase of four  SRAs including one carrier and a change in the mix of	44,589
Simps undergoing seas.  II) Increase results from a change in the number and mix of ships being overhauled between FY 1989 and FY 1990 as shown below:	527,019

	•	m	<b>5</b>	ស្ន	₩.
	•	2, 793	9,449	87,745	3, 918
0.7		7	ອ້	18	m
	m m sit 9				<b>+</b>
Change in Change in No. Ships Dollars	Carriers +1 (259,800) Cruisers (Nuclear) +1 (191,724) Advance Funding (73,916)	vides for the inactivat ce ships and the drydoc	inactive vessel.  13) Increase funds additional SSN mid-operating cycle acoustic trials, the installation phase of the cycle acoustic trials, the installation phase of the East and West Coast Acoustic Measurement Facilities, and half a year's operating costs for USNS HAYES and half a year's operating costs for USNS HAYES (TAG-195) which will be used as the East Coast radiated noise measurement platform for submarine and	surface ship acoustic trials.  14) Increase for SSN inactivations supports the inactivation of 3 more SSNs with reactor compartment disposals, advance planning for an additional inactivation in FY 1991 and two additional reactor compartment and hull disposals	in FY 1990.  15) Increases in Submarine Ship Systems Performance and Monitoring Support program will provide for:  1) the Performance Monitoring Program (PMP),  1) the Performance Monitoring Program (PMP),  1) In Provement programs to monitor 14 additional  SSN 637 and SSN 688 Class Hulls;  2) the completion of Maintenance Planning System  efforts to improve the generation of the Work  Package Management Supplement (WPMS), which  marries the appropriate maintenance standard  to the authorized maintenance action; 3)  utilization of lessons learned during the  utilization of the ESEOC (Extended Submarine  development of the ESEOC (Extended Submarine  Engineered Operating Cycle) Planned Mainten-  ance Catalog (PMC) for SSN 700 and later.

#### Activity Group: Ship Maintenance and Modernization (cont'd)

16) Funding supports the purchase of additional minor expense equipment items such as 2M workbenches, storage chests, and shelving, as well as, four additional Test Program Sets for the	751
Support Test Equipment Engineering Program (STECP).  17) Funding required for Title-K SHIPALTs for	42,617
CVN-/U scheduled overhaur. 18) Increase for SHIPALTS budgeted on carriers during scheduled drydocking availabilities that	17,648
cannot be accommodated during non-drydocking SRAS.  19) Expanded SHIPALT packages in FY 1990 on SSN-637 Class overhauls to include Special Hull Treatment (SHT), BQQ-5p Sonar, Sea Nymph, and TOMAHAWK installations which are required warfighting	43, 353
<pre>improvements. 20) SHIPALT installation during CGN-36 complex overhaul (COH) including the New Threat Upgrade</pre>	25,355
(NTU) alterations.  21) Installation of SQQ-89 and Recovery Assist Securing and Traversing (RAST) systems on four	28,356
DD-963 Class ships. 22) Increased Nuclear Alteration (NUCALT)	24,000
requirements to support CGN-35 and CVN-70 overnauls.  23) Installation of SHIPALTs, including the Light Airborne Multi-Purpose System (LAMPS) MK-IIIA system, on two PD-963 Class ships during scheduled	26,469
overhauls.  24) Installation of Submarine Extended Operating Cycle (SEOC) Mods, Package Alterations, and Reliability and Safety related improvements to steam plants on submarines without scheduled availabilities. Work can be accomplished outside of a depot availability.	27,418

-804,096							
(-804,096) -6.478	-3,393	-39.792	-1,177	906-		-1,956	-218
Program Decreases C. Other Program Decreases in FY 1990		support rervices required since 3 temes of the upgrades are supported, fewer equipment installations will occur, and 116 fewer test package developments.	compartment disposals will occur in FY 1990.  4) Reduction in operating costs (one-half year)	for MONOB resulting from transition to using using the HAYES as the East Coast accoustic measurement platform.  5) Decrease reflects reduced maintenance and material documentation updates, reduced maintenance engineering	life cycle support, and reduced engineering development on three ship classes as well as reduced maintenance monitoring and vibration analysis efforts on four ship classes.	6) Decrease in funding required for Submarine Battery Renewals due to a net reduction of one renewal between by 1989 and FY 1990.	7) Reduction in supply support required for Readiness Support Group (RSG) operations and reduction in the support for Integrated Logistic Overhaul (ILO)

-10,934

9) Identification of excess on-board inventories has reduced the requirement for materials/supplies for daily administration and Intermediate Maintenance Activity (IMA) support.

8) Reduction in requirements due to SIMA manpower management initiatives,

efforts.

10) Decrease results from a change in the number and mix of overhauls between FY 1989 and FY 1990 as shown below:	-385, 974
Change in Change in No. Ships Dollars	
Submarines Cruisers/Destroyers/ Frigates (-93,157)	
Auxiliaries  Auxiliaries  11) Decrease in SHIPALTS for FF-1052 Class ships	-5,468
due to a reduction in the number of avairablistics.  12) Decrease of ten FFG availabilities and a reduction in the SHIPALT packages on other	-73,241
Cruiser/Destroyer (CRUDES) availabilities.  13) Reduction resulting from differences in CG New Threat Upgrade (NTU) packages between CG-16 (two launcher) and CG-26 (one launcher) Class	-12, 135
requirements. 14) Decrease results from two fewer DDG-993 Class and one CG-16 Class overhauls which include	-78,894
NTU SHIPALTS. 15) Submarine SHIPALT decrease due to reduction	-24,267
of an SSN-688 Class overhaul.  16) Decrease of one submarine DMP and reduced SHIPALT packages on the remaining DMP's due to previous installation of such alterations as	-73,955
BQQ-5D, SHT and Thin Line Towed Array.  17) Decrease of eleven Amphibious Ship avail- abilities with a decrease in the SHIPALT packages	-25, 272
for the remaining availabilities.  18) Decrease of two Service ship overhauls with a decrease in the SHIPA&I packages for the remaining	-37,571
Service Ship availabilities. 19) Decreased NUCALT requirements for submarines due to fewer scheduled availabilities.	-13, 300

20) Decrease in funding for Depot Modernization Periods -8,619 (DMPs) based on a reduction of one DMP from FY 1989 to FY 1990, partially, offset by a change in the mix of submarines undergoing DMPs.

9	FY 1990 President's Budget Request	\$4,850,296
		160,235
:	Pricing Adjustments A Anomalization of FY 1990 Direct Pay Raises (16	
	tional Direct Hires	
	=	
	2) Wage Board	
	tional Direct Hires	
	C Stock Fund (2,522)	
	-	
	2,518	
	E. Other Pricing Adjustments (56,902)	
c		819, 292
œ	P. FO	
	s one	•
	more inactivation with reactor compartment	
	2) Increase in the SSN Acoustic Trials program 2,401	
	reflects a full year's operation of USNS HAYES	,
	(TAG-195) vice a half-year in FY 1990 and supports	
	3) Increase provides for the inactivation of	
	six additional surface ships. Increase	•
	partially offset by a change in the mix of ships.	•

#### Activity Group: Ship Haintenance and Modernization (cont'd)

tt/ In eering requ- of SSN ch Systems.	Bu	ian 70 ary	ng 247	and 324 ncreased ss	from FERS 34	R-1 in FY 49,383	and 940 nce
Support, and the Material Condition Assessment/ Improvement programs will monitor 4 additional SSN 637 and SSN 688 Class Hulls in FY 1991. In the ESEOC program, new advance planning engineering and Integrated Logistics Support efforts are required for FY 1993 Depot Modernization Periods of SSN 719 and SSN 720 submarines with Vertical Launch Systems.	1,100 additional manhours to prepare engineering material for upgrades associated with MILCON projects. In addition, funding is required to install additional plant and minor expense	6) Increase provides for an additional civilian workday in FY 1991, and average grade and salary adjustments at PERAs and SUBMEPP.	7) Increase reflects continued data processing initiatives, increased Maintenance Engineering and other field activity support at SUBMEPP.	8) Increase in the Surface Ship Maintenance and Performance Monitoring Program provides for increased maintenance monitoring efforts for four ship classes and an increase in support of PHM class unique equipment	United Statement: 9) Increase in personnel benefits resulting from FERS participation.	10) Increase supports refueling overhaul of NR-1 1991. NR-1 is a one-of-a-kind, nuclear powered deep-diving research submarine.	11) Increase in supplies and equipment repair an replacement required to sustain SIMA maintenance workload requirements.

<b>⇔</b> 00 00	12) Increase results from a change in the number and mix of ships being overhauled between FY 1990 and FY 1991 as shown below:		538,166
	Change in Change in No. Ships Dollars	, <b>c</b>	
0 & 0 & &	Carriers (USS ENTERPRISE) 0 (464,700) Amphibious Warfare +1 (67,850) Cruisers/Destroyers/ Frigates (CRUDES) -1 (25,069) AERP/PERA (200)	(0) (6) (6)	
H 4 H 64 H	The decrease of one CRUDES overhaul is offset by a change in the mix of overhauls for these ships 13) Increase in funding for Submarine Battery Renewals due to an increase in requirements from 14 to 16 renewals between FY 1990 and		1,776
<b>4</b> 0	rr 1991. 14) Increase funds one additional floating drydock overhaul in FY 1991 compared with FY 1990.		22, 830
) «; T	15) Installation of BQQ-5D Sonar and Thin Line Towed Array on an additional SSN-688 Class submarine	e Towed	8, 600
5 F	during Drg 16) Increase supports installation of K-ALTs during refueling overhanl of CW-65		38, 637
i rei V	17) Increase provides for installation of NUCALTS to support CVN-65 refueling overhaul	0	51,507
on ⊷ic	18) Installation of warfighting improvement alterations (Outboard II, SLO-19, Armor) and other		22, 496
H H Ö	Title-K SHIPALTs on Cruisers/destroyers (CRUDES).  19) Increase provides for USS BELLEAU WOOD (LHA-3)  COH which includes SPN-43B Radar, Anti-Ship Missile	a	17, 532
ă <b>ă</b> ñ ô	Defense (ASMD) and Aircraft Intermediate Maintenance Department (AIMD) installations.  20) Installation of additional K-ALTs and NUCALTs on CGNs undergoing NTU upgrades.	Φ	14,643

-836, 031			ť		*	
. (-994) -494	. 200	(-835,037) -288,683		-5,487	-143,335	-10,442
Program Decreases  A. Annualization of FY 1990 Decreases  1) Annualization of transfer of resources for design engineering efforts performed at the SUPSHIPS activities to Budget Activity 7 - Central Supply and Maintenance. Adjustment reflects the transfer of resources from	reimbursable customers to SUPSHIP direct mission funding. Design engineering is a direct mission responsibility of the SUPSHIPs and should not be funded on a reimbursable basis.  2) Annualization of transfer to Budget Activity 7 for the conversion of contracted advisory and assistance services to in-house performance to reduce the risk of compromise to the acquisition	0	Change in Change in No. Ships Dollars	Submarines  Auxiliaries  Advance Funding  Reduction in Service Craft and Deep Submergence Vehicle overhaul/repair funding due to a decrease in the number of overhauls and a change in the mix	between FY 1990 and FY 1991.  3) Reduction in Phased Maintenance Availabilities (PMAs) due to a reduction of 16 PMAs between	FY 1990 and FY 1991. 4) Reduction in funding for habitability improvements due to the completion of major habitability repairs in FY 1990.

major RAVs in FY 1990.  in IDD support due to a decrease of one -2,074 ocking (IDD) between FY 1990 and FY 1991.  in funding required for SRAs due to a -145,668 on SRAs from FY 1990 to FY 1991.  A workload requirements based on ship -10,905	nent -3,622 s (CIS)143 cries -143 plies -37,230	t at -314 vel of the -308 cgram to uirements	ram due -3,044 AYES latform. easurement nance vice	-1,006 uts on22,464
completion of major RAVs in FY 1990.  6) Reduction in IDD support due to a decrease of one Interim Dry Docking (IDD) between FY 1990 and FY 1991.  7) Reduction in funding required for SRAs due to a decrease of ten SRAs from FY 1990 to FY 1991.  8) Reduced IMA workload requirements based on ship	mix changes.  9) Increase in SIMA manpower reduces requirement for more costly Commercial Industrial Services (CIS) 10) Identification of excess on-board inventories has reduced the requirement for materials/supplies for daily admin and IMA support.  11) Reduction is due to one less SSN inactivation	without reactor compartment disposal and fewer inactivation advance planning requirements.  12) Decrease reflects reduced overhead support at PERA CV, and reduced ADP systems support, travel and supply support at the PERAs and SUBMEPP.  13) Reduction results from a) the transition of the Maintenance Managmement System of the Surface Ship System Performance Monitoring Support program from the development and implementation phase to program maintenance and b) fewer feedback requirements resulting from the the decrease in scheduled	maintenance.  14) Decrease in the SSN Acoustic Trials program due to the completion of the transition to USNS HAYES vice MONOB as an acoustical trial measuring platform.  Also, both the East and West Coast Acoustic Measurement Facilities transition to operation and maintenance vice	installation errords.  15) Decrease in the SIMA Upgrade Program resulting from one less site supported.  16) Decreased SHIPALT installation requirements on newly delivered SSN-688 Class submarines.

\$4,993,792

FY 1991 President's Budget Request

11.

### III. Performance Criteria

advance preparation, only the portion applicable to the fiscal year appropriation appears with the ship in the induction year. Advance preparation costs are reflected in the appropriate OuMN expense for fiscal years 1988 through 1891. Although the overhaul is costed for the full term including The following table depicts the regular overhaul program profile Ship Overhauls: fiscal year.

	FY ]	988	FY 19	FY 1989	7	FY 1990	FY 1991	166	
Type of Ship	Ships	S S	Ship	종	Shi	SS SS	Suips	S .	
Carriers Submarines (Nuclear) Cruisez/Destroyer/	1 6	117.0 588.6 264.8	0 7	0.0 648.4 256.7	К	278.2 433.4 358.4	<b>⊣</b> 000,	724.5 264.4 421.0	·
Frigate Amphibious Auxiliary/Support Total Inductions	3 1 22	51.8 4.0 1,026.2	0 6 25	0.0 37.8 942.9	0 2 15	0.0 13.8 1,083.8	10 0 12	1 67.8 0 0.0 .2 1,477.7	m 0 F
Advance Funding AERP/PERA *		86.3 16.1		9.18 9.8		154.6	•	53.0	C) 187
Total Program		1,128.6		1,033.4		1,249.6		1,542.1	pel

\*Advance Equipment Repair Program/ Planning, Engineering Repair and Alteration represents preoverhanl effort/repairs accomplished outside the shipyard facilities and directly funded by the customer.

The resources required for voyage repairs R. Restricted and Technical Availability. The resources required for voyage repaired based on historical experience for each ship type and number of ship operating months. Resources for planned availabilities are based on the number of scheduled availabilities in each category. A summary of voyage repairs and planned availabilities follows:

	FY 1988	88	FY 1989	68	FY 1990	80	FY 1991	<u>91</u>
Type of Repair	Ships	NS.	Ships	WS.	Ships	WS	Ships	W\$
Vovage (Op Months)	4,514	311.7	4,500	342.2	4,662	351.9	4,695	341.9
Battery Renewals	14	6.1	15	8.5	14	7.4	16	9.3
Interim Drydocking	**3	2.5	2	1.5	<b>+</b> 4	2.0		
Sel Rest Avail.	84	582.2	79	711.6	. 83	795.3	73	689.7
Phased Maint. Frail.	64	383.5	62	375.0	S.	459.4	43	337.1
Svc Craft & Boats	24	24.1	32	44.0	33	65.7	27	128.2
Deen Submerd Vessels	9	1.6	9	10.0	9	7.4	9	7.7
Habitability	91	25.4	70	26.7	36	35.8	. 82	27.0
Miscellaneous RAVs	527	1.99	615	100.3	410	115.0	304	108.7
DWD	I	7.6	ī.	160.3	₹7*	157.2	4	171.3
PSA	10	1.5	ين ا	1.9	16	5.4	12	6.1
Total Program		1,418.9	, <b>, , ,</b> ,	1,782.0	2	2,092.5	***	1,827.0

Activity Group: Ship Maintenance and Modernization (cont'un

C. Fleet Modernization Program (\$M)

FY 1988	IMPOSED REQMTS.	MISSION	୍ଥ ଅ	HMEE	SAFE	HAB E PERS	PROGRAM	TOTAL
CARRIERS	1.9	73.2	13.0	23.6	17.7	5.9	39.9	175.3
Submarines	0.	54.3	2.0	46.9	1.9	ø.	43.1	148.3
SUB SUPPORT SHIPS	F.	6.3	er,		~	0.	0.4	2.5
CRUDES-MINE WARFARE	4.7	113.2	12.4	32.6	13.1	11.2	71.1	258.3
SERVICE SHIPS	1.2	21.15	2.6	3.9	6.2	3.8	19.6	58.8
AMPHIBIOUS SHIPS	3.1	11.3	10.8	2.8	21.0	e.	24.0	13.7
FLOATING BRYDOCKS	0.	ت	•	0.	0.	0.	<b>0</b> .	0.
SEPARATE FUNDING	e.	160.3	20.3	14.8	6.	***	7.8	204.8
NET ADVANCE PLANNING								21.2
TOTAL FOR BA-2	11.3	434.7	61.5	125.3	6.09	22.1	205.9	942.5
			- /: - · · .					

Activity Group: Ship Maintenance and Modernization (cont'u)

FY 1969	IMPOSED REOMTS.	MISSION	ଅ	HMEE	SAFE.	HAB & PERS	PROGRAM	TOTAL
CARRIERS	0.	10.2	6.2	1.7	6.6	۲.	26.1	54.7
SUBMARINES	0.	152.9	6.5	29.8	4.2	.0	38.0	231.5
SUB SUPPT SHIPS	0.	r.	1.7	<b></b>	0.	0.	សុំ	3.2
CRUDES-MINE WARFARE	5.9	191.0	6.1	27.4	41.9	3.2	74.2	349.5
SERVICE SHIPS	2.1	19.4	1.2	6.1	29.8	e.	21.8	80.4
AMPHIBIOUS SHIPS	3.3	23.5	6.3	1.3	24.0	<b>e.</b>	20.5	78.9
FLOATING DRYDOCKS	0.	0.	0.	0.	0.	0.	0.	0
SEPARATE FUNDING	1.2	198.4 2	24.6	26.6	2.4	<b>-</b>	15.5	268.8
NET ADVANCE PLANNING								e.
TOTAL FOR BA-2	12.5	596.3 5	52.5	93.1	112.1	3.9	196.6	1.070,1 3.361

Activity Group: Ship Haintenance and Modernization (cont'd)

4

FY 1990	IMPOSED REOMTS.	MISSION	ප	HMEE	SAFE E NAV	HAB 6 PERS	PROGRAM	TOTAL
CARRIERS	0.	36.5	30.9	4	8.4	.2	28.1	108.4
SUBMARINES	0.	126.7	6.9	27.0	2.9	0.	38.6	202.1
SUB SUPPORT SHIPS	<b>!</b>	1.2		1.9	0.	0.	ල	4.6
CRUDES-MINE WARFARE	5.0	190.4	4.5	10.8	17.3	4.2	71.8	304.0
SERVICE SHIPS	3.7	10.8	بو	3.2	12.2	0.	14.4	44.9
AMPHIBIOUS SHIPS	5.8	11.7	1.4	1.1	18.4	0.	17.5	55.9
FLOATING DRYDOCKS	r	φ.	0.	0.	0.	0.	• •	<b>o</b> *.
SEPARATE FUNDING	0.	215.7	15.6	43.8	3.2	0.	14.0	292.4
T ADVANCE PLANNING								0
TOTAL FOR BA-2	14.7	594.0	60.4	92.1	62.4	4.3	165.3 1,013.2	.013.2
						•		

Activity Group:
Ship Maintenance and Modernization (cont'd)

	IMPOSED REQMTS.	MISSION	ខ	HMEE	SAFE	HAB E PERS	PROGRAM	TOTAL
	0.	20.2	1.4	73.4	11.3	0.	26.3	132.5
	.2	93.2	3.7	24.2	2.9	0.	32.0	156.2
SUB SUPPORT SHIPS	٥.	ø.	.7	۲.	Τ.	0.	₹.	2.0
CRUDES-MINE WARFARE	5.2	194.8	3.9	4.0	21.2	2.9	73.7	305.7
SERVICE SHIPS	6.1	7.6	0.	.1.2	9.6	0.	10.0	34.4
AMPHIBIOUS SHIPS	5.3	26.1	1.6	2.4	16.4	0,	22.8	74.6
FLOATING DRYBOCKS	5.	ο.	0.	1.3	r;	0.	0.	1.9
SEPARATE FUNDING	0.	282.5	12.8	11.2	3.1	0.	10.9	320.5
HET ADVANCE PLANNING								0.
TOTAL FOR BA-2	17.3	624.4	24.1	118.3	64.7	2.9	176.1	1,027.8

Note: May not add due to rounding.

Total # of crewmen requiring

NOTE: Included in the totals of crewman and ships supported is a carryover from ongoing availabilities started in previous fiscal years.

F. Intermediate Maintenance provides for repair parts and materials for intermediate level support of the active forces including self-support for the tenders. The cost associated with the intermediate maintenance effort is identified to productive manhours in the repair departments and a cost per material year. The commercial industrial (CIS) program identifies the workyears of effort purchased and the

total cost.	FY 1988	FY 1988 FY 1989	FY 1990	FY 1991
Repair Department Support Productive Manyears Total material costs (\$000)	7,621 8,295 205,804 187,260	8,295 187,260	8,729 195,916	8,461 202,877
Contract Support Manyears Total Costs (\$000)	286 24,252	607 55, 199	507 47,890	301 29,770
SIMA Admin costs (\$000)	28,129	26,541	28,405	30,658

ئ	Inactivation of Ships (\$000)				
)		FY 1988	FY 1989	FY 1990	FY 1991
	Submarine Inactivations				
	(# of Advance Plan Efforts)	<b>4</b>	S	9	2
	(# of Inactivations)	7	(T)	÷ન	<b>O</b>
	(# of Reactor Disposals)	<del>,</del> -1	0	2	2
	(# of Inacts with Reactor Disposals)	-	0	က	4
	(# of Hull Disposals)	0	0	2	4

### Maintenance Improvement Support

SSN Performance Monitoring and Support Program permits placing submarines on an extended operating cycle without endangering safety of operations. The measure of achievement is the number of ships supported and the ability to place additional ships on the program as they fit the criteria.

		FY 1989	FY 1990	FY 1991
Engineering reconical and Management Support *	892	965	1,007	1,047
Maintenance Planning *	892	965	1,007	1,047
Submarine System Performance Data Support and Material Condition Assessment **	. 69	70	84	<b>&amp;</b>
ESEOC planning (\$000)	5,562	4,734	6,114	6, 632

\* Workload indicators are ship operating months supported.

Surface Ship Maintenance and Performance Monitoring System (SMMPMS). This program supports placing and maintaining various designated surface ship classes on engineered These maintenance strategies result in fewer overhauls or the elimination maintenance strategies, and devising and implementing engineering, technical, and maintenance strategies to the maximum extent practical without degrading material logistical support approaches to extend the ship operating cycle under these

regular overhaul with condition-directed maintenance and use of Port Engineers), and of overhauls and an increase in ship operational time. The three maintenance strategies are Engineered Operating Cycle (extended regular overhaul intervals with LO-MIX progressive overhaul (elimination of regular overhaul with time-directed condition-directed maintenance), the Phased Maintenance Program (elimination of maintenance).

	FY 1988 E	FY 1989	FY 1990	FY 1991	
Maintenance Improvement Proq. (ship classes)		ထ	<b>&amp;</b>	ω	
Svs/Equip, Maint, Monitoring (ship classes)	4	4	₩.	<b>T</b>	
Engineered Operating Cycle (ship classes)	12	12	o,	σ	
ASMS/PSMS/Phased Maint.Program (ship classes)	23	22	22	22	
LO-MIX Progressive Overhaul (# of ship classes)	4	❤	47	4	

# Planning and Engineering for Repair and Alterations (PERA) for Submarines and Surface Ships.

The three PERA detachments for surface ships and the Submarine Maintenance, Engineering, engineering technical, and logistic tasks. These efforts transferred from PBD 022 Planning and Procurement (SUBMEPP) detachment for submarines perform a myriad of

	FY 1991
	FY 1990
	FY 1989
	FY 1988
96.	
19	

19,649

# 1) Submarine Maintenance Engineering, Planning, and Procurement (SUBMEPP).

TOTAL PERA's and SUEMEPP

accomplished by the efficient use of management and engineering resources on high priority Program, Submarine Extended Operating Cycle, Trident, Advanced Equipment Repair Program SUBMEPP is a management engineering organization, under the cognizance of the Naval Sea funding from the Type Commanders and other NAVSEA programs such as Fleet Modernization procedures throughout NAVSEA and its field activities. SUBMEPP receives reimbursable accomplishment of effective, efficient, orderly and timely ship overhauls. This is overhaul improvement programs to develop and use standard documentation methods and Systems Command, whose objective is that of providing intensive management for the (OPN effort), and Extended Submarine Engineered Operating Cycle (ESEOC)

FY 1991
FY 1990
FY 1989
FY 1983
,

9,036 8,604 TOTAL FUNDING SUBMEPP

There are PERA detachments for cruisers/destroyers (CRUDES), carriers (CV), combat support maintenance impacts due to alterations, repair material management, and special projects for ship logistics managers. The dollars shown below fund only the overhead expenses at each facility. ships (CSS), and amphibious and service craft (ASC). The primary functions of PERAs are FY 1991 management support for availabilities, life cycle maintanance management and class 2) Planning and Engineering for Repair and Alterations (PERA) for Surface Ships FY 1990

each tacility.	FY 1988	FY 1989	FY 1990	FY 1991	
PERA CRUDES	<b>4</b>	*	4,650 4,640	4,640	
PERA CSS/ASC	*	*	3,145	3,247	
FERA CV	*	•	2,731	2,726	

\* Prior to FY 1990, effort funded in BA-7 - Other Logistics Support.

IV. Personnel Summary:

FY 1990	i	9,428	9, 199	838	758 80
FY 1989		8,897	8,668	. 627	547 80
FY 1988		8,325	8,099	540	<b>467</b> 73
rersonner Summary.	End Strength (E/S)	Military	Officer Enlisted	. Civilian	USDH FNDH
rerso	En	A.		æ	

10,015 238 9,777

758 80

838

FY 1991

#### Department of the Ravy Operation & Maintenance, Navy

Activity Group: Budget Activity:

Combat Support Forces 2 - General Purpose Forces

#### . Description of Operations Financed

The operations of Navy Mobile Construction Battalions (NMCB's) and Special Combat Support Forces, together with repair of combatant craft, are financed in this program. NMCB's - Funding requested provides for training, operational support, and camp maintenance for eight Travel is necessary to carry out NMCB deployment schedules and construction taskings and is usually arranged via Military Air Command (MAC) special construction battalions, two construction regiments, two underwater construction teams, two fleet battalion commanders, and two civic action teams. aircraft charter. Special Combat Support - Funding requested provides for trained special combat forces to deploy either communications, medical/dental material, fuel, contract services, facilities maintenance, and ADP support. squadron, the Naval Security Coordination Team (Anti-terrorist), the Naval Beach Group component commands (Beach Master Unit, Mobile Technical Unit, Amphibious Construction Battalion, Assault Craft Unit, and Component commands that are These units provide a wide associated with this transfer of the Seal Teams to BA II are reflected in the financial summary that is funded under this program include Explosive Ordnance Disposal Groups, an airborne mine countermeasures Teams has been transferred from Budget Activity 2 to Budget Activity 11. Resource reductions that are range of highly important and specialized capabilities. Among other items, expenses include civilian Navy Seal Teams are no longer funded under this program. Beginning in FY 1988, funding for Navy Seal personnel salaries, repair parts, equipage, equipment maintenance, travel and transportation, Haval Cargo Handling Battalion), and Landing Craft Air Cushion (LCAC) units. aboard ship or to a forward base to conduct conventional warfare operations. provided below.

level maintenance. As a general policy, craft maintenance is performed at the lowest level of maintenance Repairs include organizational, intermediate, and depot Craft Repair - Funds requested finance repairs to combatant craft consisting of various landing, mine practical in order to provide maximum availability of craft. countermeasures, and other special purpose craft.

# II. Financial Summary (Pollars in Thousands).

#### A. Sub-Activity Group Breakout.

				FY 1989		•	1001	
			Amended		•	FY 1990	Pr 1991	
		FY 1988	Budget	Appro-	Current	Budger	nañona Brenter	
		Actual	Request	priation	Estimate	Rednest	Kednest	
			•	200 20	166 36	34.512	33.091	
SEABEE	E OPERATIONS	36, 457	36, 153	30, 120	20, 00	316 316	55, 25 55, 258	
		47.159	46,499	46,665	49,659	6/7/IC	3,200	
COMPA		0,671	11,648	1.1,648	11,937	6,353	106'/	
COMBAT	CKART	101		1		1		
TOTAL	TOTAL ACTIVITY GROUP	93, 287	94,300	95,039	98,367	92,139	96,310	
		•						
B. Reco	Reconciliation of Inc	ion of Increases and Decreases:	ecreases:				Amount	
	1000 Current Betimate	e tag					98,367	
I. FI	FI 1909 Current Bact	1			•		6	
	Strong Adingtments			-		•	2006	
2. PII	Filering adjustments:		FY 1989 Direct Pay Raise	se		(53)		
ċ	Dilling 11 cast 5: 5: 5:					D.C		
						m		
	2) Wage Grade	•				(64)		
æ.	FY 1990 Direct F	Pay Raise				, or		
	1) Classified		•			•		
						r ,-	•	
		onal Direct	Pay Adjustme	ent		1009-7		
ئ	_					15.45	,	
ı I	1) Fuel					5.4.4.		
	2) Non fuel					111		
_	lus	Rates				111		
i ini	Foreign Nationa	on National Indirect Hire	lire			(43)		
<u>(</u>	Forejan Currency	>				(27)		
ئى :	Other Pricing Adjustments	djustments				(1,213)		
		<b>.</b>					2,938	
3. Pro	Program Increases:	ncreases: program Growth in FY 1990	066					

Program Increases:
A. Other Program Growth in FY 1990
I. Increase of supplies and equipment for Navy Security Coordination
Team (NSCT).

24

		-10,066			92, 139	1,995				
2,592	18 304	-33	-1,834	-2,476 -5,322			(34) 29	(109) 104	(501)	421 (421) (5) (925)
<ol> <li>Funds required to support seven new Landing Craft Air Cushion (LCAC) vehicles, support maintenance, fuel and spare parts for</li> </ol>	craft operation.  3. Increase in CIVPERS benefits due to higher FERS participation.  4. Increase in supplies, materials and transportation requirements to support the accomplishment of various construction projects by mainbody sites with details located through the Pacific.	<ul> <li>Program Decreases:</li> <li>A. Other Program Decreases in FY 1990</li> <li>1) Reduction in separation liability costs for Foreign National</li> </ul>		projected Construction Battalion deployment schedules.  4) Reduced support and overhead required due to consolidation and decommissioning of the Ninth Construction Battalion.  5) Reduction due to decrease in the number and mix of craft overhauls.	5. FY 1990 President's Budget Request		<ol> <li>Fricing Adjustments:</li> <li>A. Annualization of FY 1990 Direct Pay Raise</li> <li>I) Classified</li> </ol>		<ol> <li>Mage Grade</li> <li>Foreign National Direct Hire Pay Adjustment</li> </ol>	

nal Civilian personnel Workday in FY 1991.  Frowth in FY 1991  Sed on projected cyclic clart maintenance.  red to support 12 new Landing Czeft Air Cushi cles requiring an increase in Spares, repair nnsumption.  GIVFERS benefits due to FFRS participation.  GIVFERS benefits due to FFRS participation.  In teal consumption by Combat Support Units du lence effort to conserve.  In ransportation of Construction Battalions reduction in number of CB's deployed.  In transportation of Construction Battalions reduction in number of CB's deployed.  In operations and transportation costs in support a spare parts, contract sercyices, facilities  Planes Miles Planes Miles FY 1989  FY 1988  FY 1989  Planes Miles Planes Miles 16 74,103 7 32,886 14 138,203 10 115,226 9 73,004 21 206,593 0 2 18,084 14 48,598 28 94,676	۲							5,299
A. Other Program Decreases in FY 1991  A. Other Program Decreases in FY 1991  Includation in fuel consumption by Combat Support Units diagraction in separation liability costs for Foreign Nath Indirect Labor.  3) Reduction in transportation of Construction Battalions costs, and reduction in number of CB's deployed.  4) Reduction in operations and transportation costs in suppressive Ordinance Disposal Units and Mine Countermeasu Explosive Ordinance Disposal Units and Mine Countermeasu in spare parts, contract sercitices, facilities maintenance, and ADF support associated with Combat Supprints.  5) Decrease in spare parts, contract sercitices, facilities units.  6) FY 1991 President's Budget Request  7) Performance Criteria.  Construction Battalions  FY 1988  FY 1989  Planes Miles  16 74,103 7 32,886  Okinawa  16 74,103 7 32,886  Okinawa  18 00,594 16 141,724  Sigonella  19 0,594 16 141,724  Depicy. for Training  14 48,598 28 94,076	•	B. Och 1) 1) 1) 2)	an personnel Worker 1991 jected cyclic clamport 12 new Landining an increase enefits due to FE	day in FY 1991.  rt mainteuance.  ng Czeft Air Cus in spares, repai	hion r parts	(16) 16 1,306 1,306 3,956		
Performance, and ADP support associated with Combat Support Units.  9. FY 1991 President's Eudget Request  Construction Battalions  EY 1968  Construction Battalions  FY 1968  FY 1968  FY 1969  Planes Miles  Sites  Rota  Rota  Rosevelt Roads  Ckinawa  Guam  Subic Bay  Subic Bay  Subic Bay  Sigonella  14 48,598  Subic Bay  Sigonella  14 48,598  Subic Bay  Sigonella  Subic Bay  Subic Bay  Sigonella  Subic Bay  Subic B	<b>&amp;</b>	Program Decreases A. Other Program 1) Reduction kJre consc 2) Reduction Indirect I 3) Reduction costs, and Krplosive	sumption by Comba t to conserva. on liability cost tetion of Constru in number of CB's ns and transporta sposal Units and ts. contract serc	t Support Units s for Foreign Naction Battalion deployed. It ion costs in suffices wices, facilitii	due to a stional s upport of sures Force	-645 -19 -1,643 -137 -88.		-3,123
Construction Battalions         FY 1968         FY 1968           Deployment         Planes Miles         Planes Hiles           Sites         16 155, 957         21 166, 740           Rota         16 74, 103         7 32, 886           Roosevelt Roads         14 138, 203         10 115, 226           Okinawa         9 73,004         21 206, 593           Guam         0         2 18,084           Subic Bay         7 90,594         16 141,724           Sigonella         14 48,598         28 94,076	<b>o</b> .	maintenance, Units. FY 1991 President's Performance Criteria.	support associate equest	ed with Combat S	upport			96,310
Planes Miles Planes Hiles  16 155,957 7 32,886  16 74,103 7 32,886  14 138,203 10 115,226  9 73,004 21 206,593  9 73,004 21 206,593  0 0 2 18,084  11 48,598 28 94,076		Construction Battalions	FY 1968	FY 1989	FY. 1990		FY 199	
580,459 105 775,329		ment relt Ro ra Bay Bay ella	Planes Miles 16 155,957 16 74,103 14 138,203 9 73,004 0 0 7 90,594 14 48,598	Planes Ni les 21 166, 740 7 32, 886 10 115, 226 21 206, 593 2 18, 084 16 141, 724 28 94, 076	nes 2		21 21 14 21 11 0 7 32 106	Planes Miles 21 168,406 14 67,081 21 213,182 11 121,774 0 0 0 7 90.594 32 97,232

FY 1931 46 382 36	899 9	FY 1591 189 1	3,120 3	2,502 6	257 1	358 1 890 2	275 1 360	7,951 15			
FY 1990 46 377 24	89	FY 1990	1,875 2	2,725 7	1,125 5	390 1	238 1	6,353 16	FY 1991	11,386	195 189 <b>4</b>
46 46 377 17	89	686	# <b>2</b> 71 4-4	1 6	<b>80</b>	<b>4</b> 7	بر نی	138	FY 1990	11,250 754 10,496	189
FY 1988 FY 1989 46 46 317 348 317	99	FY 1988	2,560 3 3,569 741 2 891	1,463 7 3,285	783 5 1,760	360 375	175 36 1 540	9,671 19 11,937	FY 1989	11,033	196 190 2 2 4
لداند	Landing Craft Air Cushion Explosive Ord. Disposal Team		LCU Landing Craft Stility	YEST Fard Repair Salvage Tender YFN Tard Covered Lighter	LCH/WB Land Craft Mechanized/	Norkboace SWCL Spec. Warfare Craft lgt UB Utility Boat	LCAR Land Craft Vehicle Pers. FE Personnel Boat	PATA TOTA: \$	5	End Strength E/S  A. Wilitary Officer 9,976	B. Civilian 185 USOH 3 PNDH FNIH

Department of the Navy Operation & Maintennnce, Navy

> Activity Group: Budget Activity:

Fleet Operations Support 2 - General Forces

#### i. Description of Operations Financed

The funds requested support the following functions in support of fleet operations:

- Combat Systems Readiness Includes expenses for personnel based at selected Naval Security Group also provide for testing weapon systems opexitions and readiness at the Atlantic Underwater Text and sites to install, maintain and operate special cryptologic equipment aboard selected combatants. Evaluation Center, and various Pacific fleet ranges.
- b. Fire femporary Additional 0-ty (TAD) Includes centrally managed travel required for sperational taking, edministrative travel for shore assignments and hospitalization or other energencies.
- These commands meet the tactical support requirements of the P-3C long range Installations Arcated world wide in support of fleet operations, two abbreviated systems, located at Hortl Anti-Submarine Warfare Operations Centers (ASWCC) - Includes expenses for fifteen operational ASWC) Estand and Cacil Field (in support of the S-3A), a training site at Dam Neck, and a prototype/maintenance respectively control mission aspects and detect and isolate system malfunctions; implementation of system iir ASW weapon system and provide terminais for the ASW area commanders in the overall Navy Command and change kits; integrated Logistics support; life cycle support of operational and system test seftware to Control System. Funds requested finance operational maintenance; installation and chitchat of hardware software reliability and maintainability improvements; and software modifications to maintain comparibility with airborne systems charges and other systems. support site at St. Indigos.
- Oceanographic Systems Cummanders and certain NAVFACs prior to dissemination to fleet users and compilation Operating expenses include civilian personnel, contractual services for repair, conditions and for training of personnel employed in observing and analyzing oceanographic conditions. Undersea Surveillance (Fleets) - Includes expenses for performing oceanographic observations i selected areas in order to provide the U.S. Navy with more extensive information on oceanographic Naw date is collected by naval facilities and then ccordinated, analyzed, and evaluated by the late processing, training, supplies, and operation of TAGOS ships.

Activity Group: Fleet Operations Support (cont'd)

Undersea Surveillance (COMSPAWARSISCOM) - This program transferred from budget activity 7 in FY 1989.

Sound Surveillance System (SOSUS) provides for the collection and processing of undersea acoustic SAKUS consist of cables connected to shore sites and shore processing equipment. This program maintains existing SOSMS against cable breaks and equipment breakdowns and is improved A significant inventory of through backfirs to shore facilities and installations at new shore facilities. expandable cable repair material is required. Raintenance of existing systems is accomplished by three cable ships required to provide continuous cable guard and repair services in the Atlantic and Pacific. In addition, a cable transporter and survey whip support the program. Deployments also involve extensive oceanographic, hydrographic and acoustic curveys which page the way for cable and array implantment.

The UST maintenance of SOSUS shore electronic systems hardware is augmented by American Telephone maintenance of shipyard periods, shore and cable inspection/repair and refurbishment of shore electronic and Telegraph (TIMI) Resident Engineer Support (One of two ingineers per site), configuration control support and Maval Biectronic Systems Engineering Center maintenance of selected hardware, including hatdware.

for data collection. A satelitte relay is used to transmit acoustic data to a shore facility for processing Surveillance Towed Array Sensor System (SURIASS) provides for collection and processing of undersea It employs a passive hydrophone array towed by a dedicated surface ship, designated TAGOS, acoustic data.

related vary not in a circct, linear way, but rather in a step function. This includes field support teams A condent on the number of ship operating months include the salaries of contractor technicians who operate esphort facilities. There are also costs which are related to ship operations but are incurred in advance which are not dependent on the number of ships operating during a given year, including computer software maintenance of the TAGOS ships, which is a fleet responsibility). There is a large base of fixed costs engineering support, training facility operations, and minimum staffing at shore logistics This program provides for operation and support of SURIASS systems (not including operation and Other costs which are ship operations and staffing at array maintenance and logistics support facilities. Program costs which are directly and maintain SURTASS equipment aboard TAGOS ships, replanishment and consumable items subsistence of thipopard technicians, engineering support of onboard equipment and EMI surveys. of ship delivery, such as technician salaries during training.

- addition funds finance, Control and communications Counter-measures, the administration of communications Software Standardization, Tactical Flag Command Centers, and Over-the-Horizon targeting. Funding also provides for the replacement of shipboard VERDIN Very Low Frequency (VLF) receivers with the Compact VLF, functions including operation and maintenance of rapid communications systems, telegraph, administrative telephones and service, and the operation of message centers which provide communication interface with surveys, technical support services, and documentation for the Navy Command and Control Systems (NCCS), the Ocean Surveillance Information System, Navy World Wide Military Command and Control System (WWHCCS) Fleet Electronic Command and Control Systems - The Fleet Electronic Command and Control Systems Program funds a variety of subsystems; including expenses for hardware and software maintenance, site mission requirements, and installation, engineering and technical services for hardware and software, Software and technical support services for Link II in support of Command, Control and Communication refurbisiment of equipment, and life-cycle support for Special Electronic Warfare and Command. In afloat units.
- g. Ship Operation Electronic Warfare Support Includes various equipments, devices, subsystems, and systems which will provide the capability to degrade the effectiveness of enemy weapons by performing countermeasure functions against his command, control and communications and weapons targeting systems. In addition, systems included in this program provide the capability to maintain the integrity of USN command, control, and communications networks and targeting systems.
- (CETS) services are provided to Fleet Type Commanders' maintenance personnel located at the organizational and intermediate levels of maintenance. CETS are used to elevate the technical skills of enlisted systems and equipment required for operational readiness. The CETS services are provided by Contractor maintenance personnel to a point where they are capable of performing the maintenance of those weapons transferred from Budget Activity 7, Central Supply and Maintenance, to better align direct fleet costs. Contractor Engineering Technical Services (CETS) - Contractor Engineering and Technical Support maintenance of weapons systems, equipment and components. Contractor Engineering Technical Services (CETS) are reflected in Fleet Operation Support for the first time in FY 1990. These funds were CFS representatives provide instruction, information and training in the installation, operation and Field Services (CFS) & Mobile Technical Unit (MOTU) representatives furnished by DOD contractors.
- (NETS) are performed by civil service personnel that are centrally managed by NAVAIR and NAVSEA. NETS are is limited to supporting his given company's weapons system/products, NETS can and do support many weapon civilian and service personnel who can perform the same technical mission as the CETS; but whereas a CETS Services (NETS) are reflected in Fleet Operation Support for the first time in FY 1990. These funds were systems and products regardless of manufacture. This provides increased flexibility by providing direct transferred from Budget Activity 7, Central Supply and Maintenance, to better align direct fleet costs. Fleet support for older systems at a significantly lower cost. Funding for Navy Engineering Technical Navy Engineering Technical Services Fleet Support (NETS) - Mavy Engineering Technical Services

Financial Sumary (Dollars in Thousands).

	FY 1991	Budget	Request	19,975	37,213	20,098	273,256		97,081	6,507	43, 281	36,313	1 1 1 1 1 1	533, 724
	FY 1990	Budget	Request	20,059	35,637	13,153	247,140	!	83,977	6,259	42,733	34,812		483,770
		Current	Estimate	18,551	37,460	13,766	243, 737		63, 174	5,043	0	0		381,731
FY 1989		Appro-	priation	19,722	37,204	13, 163	244,253		64, 288	5,750	0	0		384,380
•	Amended	Budget	Request	19,855	34,331	13,363	244,737		65, 552	5,907	0	0	1	383,745
Breakout.		FY 1988	Actual	•					63,744	7,330		<b>ст</b> 0	1 1 1 1 1	192,730
A. Sub-Activity Group Breakout				COMBAT SYSTEMS READINESS	SHIP - TAN	ASMOC OPERATIONS CENTERS	UNDERSEA SURVEILLANCE	FLEET ELECTRONIC	COMMAND & CONTROL	CHIP OPS EW SUPPORT	CETS MOTH SHIPPORT			TOTAL ACTIVITY GROUP D2

	Reconciliation of Increases and Decreases.	Amount
1.	FY 1989 Current Estimate	381,731
r		-5,409
7	<ol> <li>riicing adjustments:</li> <li>Annualization of FY 1989 Direct Pay Raise</li> </ol>	. (33)
	1) Classified	. 13
	2) Classified (NIF)	20
	b. FY 1990 Direct Pay Raise	(28)
	1) Classified	16
	2) Classified (NIF)	42
	Stock Fund	(-291)
		-152
	O Non Field	-139
	2) NOIL FUEL A Tadisfrial Find	(-12,884)
	o Foreign Currency Rate Adiustment	(94)
	f. Other Pricing Adjustments	(7,629)

76.401				58,177		
	(80, 602) 34,867 eet ) 45,735	(-4,201) -2,000	-2,201	3, 782	2,421 600	(5, 855) 5, 855
	<ul> <li>Functional Program Transfers</li> <li>Functional Program Transfers</li> <li>Transfers In: Intra-Appropriation</li> <li>Realignment of Navy Engineering Technical Services (NETS) 34,867</li> <li>Realignment of Navy Engineering Technical Services (BA 2) to more appropriately reflect direct fleet purposes Forces (BA 2) to more appropriately reflect direct fleet support costs in this Activity Group.</li> <li>Realignment of Contractor Engineering Technical Services (CETS) 45,735 from Central Supply &amp; Maintenance (BA 7) to General Purpose Forces (BA 2) to more appropriately reflect direct fleet support</li> </ul>	costs in this Activity Group.  b. Transfers Out: Intra-Appropriation  1) Transfer of resources to BA 7 to reflect the conversion of contracted advisory and assistance services to in-house performance to reduce the risk of comprise to the acquisition	procurement process.  2) Transfer of resources to Budget Activity 2, Other Warfare Support for electronic Warfare Analysis and Master Plan consolidation under one activity group.	4. Program Increases a. One-Time FY 1990 Costs 1) Costs necessary to activate three new TAGOS ships in FY 1990 (TAGOS 17.18, and 19) and to complete the activation for two	ships began in FY 1989 (TAGOS 12 and 16).  2) Increase for the deactivation of the USNS Neptune.  3) Sound Surveillance System (SOSUS) ship increase for MIZAR	habitability upgrade.  b. Annualization of FY 1989 increases:  1) Annualization of TAGOS per diem day operating cost for ships beginning operations in FY 1989 (+912 per diem days):     TAGOS 11 AUDACIOUS - +356     TAGOS 13 ADVENTUROUS - +94     TAGOS 14 WORTHY - +188     TAGOS 15 TITAN - +274

# Activity Group: Fleet Operations Support (cont'd)

oth 1)	Other Program Growth in FY 1990  1) Increase of 999 Per Diem days for 5 new TAGOS Ship Charters beginning operations in FY 1990:  TAGOS 12 BOLD - +268 days  TAGOS 16 CAPABLE - +352 days  TAGOS 17 INTREPID - +212 days  TAGOS 18 RELENTLESS - +106 days	(45, 519) 6, 569	•
2)	INGUS 19 VICTURINGS - FOR HAYS INCREASED TRAVEL TO MEET MISSION REQUIREMENTS FOR COMUSNAVCENT OPERATOR OF Administrative Support Unit Bahrain for COMUSNAVCENT	311 NT.	
3	Realignment of centrally managed Command travel to appropriately amounted program lines.	y 55	
43	Increase required for staging of additional AN/SLQ-49 decoy	1.59	
5)	Increase required for installation of engineering changes including communications upgrades to Surveillance Towed Array Songer System (SURTASS) ships.	456	
(9	Sound Surveillance System (SCSUS) increase for Classified	105	
11	Sound Surveillance System (SOSUS) increase in communications support for Integrated Communication Systems (software maintenance and software conversions) that are being installed in the float	336	
8	Surveillance Towed Array Sensor System (SURTASS) increase associated with 1,911 additional days of TAGOS operations. As operations increase additional funds are required for additional ship technicians, additional manpower at Array Maintenance Facilities, increased depot maintenance, additional field support, additional engineering support of onboard equipment, and additional EMI surveys. Increases are also necessary for TAGOS 19 as she becomes operational with an	6, 423	•
6	an upgraded display system.  Increase provides an initial Electronic Warfare Reprogramable Library rapid reprogramming capability (EWRL) for fleet EW	241	
10)	systems. Multiple systems can utilize the same data. In-Service Engineering Agent (ISEA) direct fleet support increases for additional technical engineering, logistic assistance, hardware and software maintenance for AN/ULO-16's.	179	

Contr	Contractor Engineering Technical Services (CETS) increase in technical support for Mobile Technical Unit (MOTU) on-the-job	œ
training. Increase prov Integrated Eccollect ocean	training.  Increase provides repairs for daily operations and periodic Integrated Logistic overhaul of support equipment required to collect oceanographic and acoustic data in support of Anti-	403
Submarine war Additional fu multi-threat Anti-Air Warf interface SQS	Submarine warrare target and fusion analysis. Additional funds are required for the 20BS trainer, a multi-threat team trainer used in Anti-Submarine Warfare (ASW), Anti-Air Warfare (ASWW) and Anti-Surface Warfare (ASUW) to directly interface SQS-56 sonar, 76mm gun mounts, SMI/MR missile, Close	215
in Weapon Systracease pro- Staten Island	in Weapon System (CIWS), HARPOON and SLQ-32 systems. Increase provides funding for Surface ship personnel assigned to Staten Island, NY. Facilities near new home port are not	114
Submarine MK- This provides factored for	Submarine MK-48 proficiency firings at AUTEC range increase. This provides each submarine with proficiency firing training factored for failure rate and recertification for two submarines	781
coming out or Electronic Co required to i	Coming out of overhaus each year.  Electronic Command and Control increases reflects support.  required to include SRC-47 secure voice communication aboard	297
Joint Operation of real-time		1,337
Personnel benefits assoparticipation (LANTFLT)	Personnel benefits associated with increasing FERS participation (LANTFLT)	× ×
Increase for Surveillance operational nonethermolecular the Horizon	Increase for additional civilian personnel at Fleet Surveillance Support Command (FLTSURVSUPPCOM) to support operational requirements of deploying Relocatable	31.9
Increase for of ROTHR det	ed to the establishment	204
21) Increase to deployments		3,436
22) Ocean Survei additional c support; Insl	Ocean Surveillance Information System (OSIS) increase for additional cost of hardware maintenance and on site operation support; Installation and planning site preparation for 2 RIM.	3,247

<del>~</del>	Tactical Flag Command Center (TFCC) program increase reflects cost of hardware maintenance for twelve additional FDDS systems; requirement to maintain two software releases (870701F and 890701) with associated contractor support to the program office for configuration management control	2, 536
· <del>\$</del>	functions. Operation Support System (OSS) increase to install equipment procured by FLTCINCS. Software (integration) modifications are required to baseline the system in order to interface with the procured equipment. Support for Its documentation and associated management and technical services are required	2,851
Ŝ	<del></del>	168
(9)	Command and Control Processor (C2) work station. Interim Command and Control Systems (ICCS) funds will provide for installation and technical support and hardware/software support and maintenance for ICCS scheduled for installation in FY 1989 and FY 1990. Funds are also required to rework the Joint Operational Tactical System (JOTS)/ Tactical Information Management System (TIMS) equipment previously procured for LAMTFIT and PACFLT as individual components in ICCS and	3,001
11.		2, 221
	maintenance actions, incorporating engineering soluwate/limmate changes, and maintaining full software configuration status accounting. Navy Oceanographic Systems Center NOSC will provide transitional support of "VEX/VMS" based software.  b) Increase in In-Service Engineering Support increase reflects 1,126 transition to operational level including full Integrated Logistics Support responsibilities, configuration and ECP status accounting; system safety, reliability and maintainability; and	1,126
	management of fleid and depot maintenance c) Increase in on-site support to install and maintain test conjument configuration. These necessary portions of ROTHR	665

438	156	52		2, 658		1,277	·		432
<pre>subsystems enable Naval Engineering Support Electronic Center Portsmouth to assume system hardware/software configuration. d) Increase in technical support for deployment and training sites. Technical support increases engineering investigations</pre>	of reported system problem areas, data reduction and analysis.  e) Increase in environmental assessments costs and design  increase in environmental assessments costs and design	reviews attributable to increased cost of margress for 281 Valuerability Assessment. New start of Data Link	Vulnerability Assessment Program which provides hardware main- tenance and repairs for special test equipment.	he C2P to patches in 5.6 workyears	in configuration management to provide initial capability to maintain C2P programs and documentation and full life cycle support for C2P Basic; and in-service engineering to provide system configuration control maintenance and initial	supervisor for the maturate.  30) Joint Tactical (information distribution System (JTIDS)	at the Software Support Activity and 7.7 additional work years for software engineering support to provide hardware and software maintenance, technical support and logistics support at HESSEC Vallejo and FCDDSSA San Diego. This provides efforts to establish the JTIDS In-Service Engineering Agent remained to address system hardware problems,	logistics documentation of deficiencies, track operational logistics documentation of deficiencies, track operational reliability and develop corrective actions. This effort includes ship integration, installation and interface with other combat systems equipments. The FY 1990 increase reflects the transition of the JTIDS SSA and ISEA function from developmental to operational status. Full life cycle	SSA/ISEA functions will begin in Fi 1991.  31) Over the Horizon Targeting (OTH-T) increase provides 3 additional systems engineers in interoperability testing for direct support of 8 fleet exercises and 12 operational test launches and increased lead laboratory support for analysis of data recovered to identify and correct interoperability problems.
		7	i	0		Ċ.			(*)

				-27, 124	
787	207	181	472	(-6, 726) -2, 953 -3, 773	(-20,398) -549 -5,766 to -449
32) Joint Interoperability of Tactical Command and Control Systems (JINTACCS) increase provides 7 additional work years for technical review of NATO Standardization agreements and representation of U.S. positions to NATO working groups and .5 work year to support modifications of message text format	(MTF) Navy standards.  33) Formatted Message Origination System (FMOS) increased effort for Navy-unique software modifications of the joint CAMPS, including emergency patches in the area of communication interfaces, and Navy enhancements to improve responsiveness and utility among Navy users. Increased effort to update the FMOS JINTACCS and NRS software and assist in message generation	and distribution of software and hardware.  34) JINTACCS Translator Unit (JTU) increased technical support for recertification of systems interfacing with JTU; compliance with new processing standards; life cycle support requirements, annual software releases to comply with USMIF standards changes	and corrections or software trouble reports.  35) Movement Information Network (MINET). Funds USNAVEUR participation in this joint OAKUM theater logistics communication network. System allows access to integrated logistics data bases; enhances monitoring of fleet requisitions and cargo movement throughout the European theater.	Program Decreases a. One-Time FY 1989 Costs 1) Decrease in FY 1989 Persian Gulf Operations 2) Decrease in TACOS activation costs for work accomplished in FY 1989 on TAGOS 11, 12, 13, 14, 15 and 16.	b. Other Program Decreases in FY 1990  1) Sound Surveillance System (SOSUS) decrease in FY 1990  Classified Program (6300 Expansion).  2) Sound Surveillance System (SOSUS) reduction in field logistics support, systems engineering, data analysis, installation maintenance, and software maintenance as operations decline.  3) Reduction in contractor support for Radius Orange program due to management initiatives to reduce contractor advisory assistance support (KEYS).

4	Reduction in software support for Mobile Systems Technical Data Facilities provided by NAVSECGRUDET Pensacola.	-40
2)	Reduced travel requirements for direct Security Group in support of the FLTCINCs.	-91
6	Reduction in training and operational travel and reduced Undersea surveillance oceanographic data collection/coordination/analysis.	-361
(,	Decrease of one less manyear of technical assistance which equates to 47 less technical assists required in direct	-50
8	Decreased support for fleet equipment breakdown projected in FY 1990 in Mobile Technical Units (MOTU)	-36
6	Phase II Backfit installation requirements have been readjusted to follow on years to preclude any similarity adverse impact	-225
10)	Navy Command and Control Systems Ashore (NCCS-A) reflects reduced efforts for computer software maintenance operational	-2,083
11)	Support (12 Workyears), and the (2 Workyears) Ocean Surveillance Information System (OSIS) reflects reduction to technical services associated with software development; reduction due to completion of ILS documentation related to fielding of all phase II sustains	-3, 623
12)	Reduction in site maintenance requirements associated with Anti-Submarine Warfare Onerations Center (ASWOC) sites	-554
13)	Tactical Flag Command Center (TFCC) reduction in lead lab support to program office.	7
14)	reflects first	-1,567
15)	operational system and planning for the second system. ROTHR transportation reduction reflects completion of air deployment of the first system to the operational site at Amchitka, Alaska.	-1,099
(91	ROTHR reduction in environmental assessment costs due to multiple operational sites planned for Guam and Alaska (some commonalty applies).	-56
(71	Reduction in Telcom Ops monitoring operations, training for Electronic Counter Counter Measures (ECCM) programs and ADP operations at Charleston resulting in decrease of 5 Civilian WY's.	-870

	483,770	18,472	48,737
-2,972	4	(215) 183 32 32 (543) 448 95 (261) 59 (8, 329) (9, 124)	(1,001) 917 84 (6,239) 399 5,840
18) Reduced Contractor Engineering Technical Services (CETS) for -2 fighter, patrol and electronic warfare platforms, and reduced weapons and maintenance support reviews.  19) Reduced Navy Engineering Technical Services (NETS) for attack fighter and electronic warfare.	6. FY 1990 President's Budget Estimate	7. Pricing Adjustments:  3. Annualization of FY 1990 Direct Pay Raise  1) Classified 2) Classified (NIF)  b. FY 1991 Direct Pay Raise 1) Classified 2) Classified 2) Classified 4. Stock Func 1) Fuc! 2) Non inel 4. Industrial Fund 6. Other Pricing Adjustments	Increases  Imme costs in FY 1991:  IMPLASS in-service engineering required to plan for industrial railabilities and overhouls for new TAGOS ship classes.  Taditional workday of civilian employment in FY 1991.  Is additional workday of civilian employment in FY 1991.  Is additional workday of civilian employment in FY 1991.  Intration of FY 1990 Increases:  Ill workyear cost for additional personnel in FY 1990 at teet Surveillance Support Command.  Interpretation of TAGOS per diem day operating cost for ships aginning operations in FY 1990 (+826 per diem days):  TAGOS 12 Bold - +97 days  TAGOS 16 Capable - +13 days  TAGOS 17 Intrepid - +153 days  TAGOS 19 Victorious - +304 days

Increase of 306 Per Diom days for 2 new	new TAGOS Ship Charters	2,337.
TAGOS 21 To Be Announced - +214 days	£	
Increase reflects staging of additional AN/SLQ-49 decoy and additional Quick Reaction Capability support.	1/SLQ-49 decoy systems support.	103
Increase reflects additional Mobile Technical Units/	cal Units/	6
Contractor Engineering reconsists Service on-site contractor assistance,		,
33)	increase in FY 1991	4,026
Sound Surveillance System (80SUS) increase in installation, main enance, system engineering, and cable inspection/repair	in installation, inspection/repair	3,323
as operations increase.		007
Surveillance Towed Array Sensor System (SURTASS) implementation of communications upgrade (including UHF secure voice, on-board analysis capability, and mission analysis introduction to	URIASS) implementation secure voice, on-board introduction to	1,490
evaluate direct battle group support), and implementation of evaluate direct battle group support), and implementation of evaluate displaying for the Associated Support Mission Updrade.	implementation of thission Upgrade.	
Surveillance Towed Array Sensor System (SURTASS) increase associated with 1.132 additional days of TAGOS operations	JRTASS) increase	2, 235
As operations increase additional funds are required for additional ship technicians, additional manpower at Array	re required for anpower at Array	÷
Maintenance Facilities, increased depot maintenance, additional field support, additional engineering support and additional Electronic Magnetic	aintenance, neering support of nic Magnetic	
Interference surveys.	,	1
Surveillance Towed Array Sensor System (SURTASS) increase in my 1991 classified Projects.	JRTASS) increase	1,664
Increase required to provides an Electronic Warfare (EW)	ic Warfare (EW)	265
Ilagging capability it freet on Systems Anti-Submarine Warfare Operations Center (ASWOC) increase	(ASWOC) increase	3, 338
processing capabilities at ASWOC sites in order to support	order to support	
Similtaneous allorate missions, improve international Navy command and Control Systems Ashore (NCCS-A) theater data	NCCS-A) theater data	
Dases, improve incerpredating with main tology and of new aircraft capabilities. Funds also include advance	include advance	

3,579	112	745	107 637	6 511	2.	φ	
planning for IOC ASWOC 33 upgrade in FY:1993. Increase required for Thetical Command Systems which will provide ASWOC updates to existing baseline systems to sustain interoperatility with new alreadt capabilities, replace obsolete equipment, provide on site technical support to all	20 ASWOC worldwide sites, and software updates between ASWAC and P-3, S-3A and NATO Patrol Aircraft.  Contractor Engineering Tachnical Services (CETS) increase by one rabile Technical Unit to provide corrective maintenance in response to Casualty Reports on SPAWAR systems. Additional on the	support will increase readiness by providing controlling to Fleet personnel.  Increase in Temporary Additional Buty funding for surface ship personnel issigned to various new gulf coast homeports. Facilities near new home port are not adequate to accomplish	required training. Increased contractor support for the Radius Orange program. Additional funds required for increased lateratory support in	the Artic Environment Data Collection Project: Increase in personnel benefits associated with increasing Federal Employees Retirement System (FERS) participation.	Command and Control Frocessor (LZF) INCLUSES OF CONTROL FOR LOS IN SOftware for the Software Support Activity and efforts in software engineering support to meet full Life Cycle Support in FY 1991 engineering support to meet full Life Cycle Support in FY 1991	Navy Command and Control Systems Ashore (NCCS-A) reflects increased efforts for computer software maintenance (16 work years), hardware maintenance operational support (16 work years) and ILS (2 work years) to implement the planned (5 work years) and ILS (2 work years) to implement the planned for 1991 Baseline Software maintenance releases which are based upon FLTCINC inputs. These efforts include, but are not limited to: software for implementing the Shore Targeting Terminal (STT)/Satellite Information Exchange (SSIXS) interface software modification to allow two-way interface between STT and AUTCOIN; software efforts to implement the NWCS interface and AUTCOIN; software efforts to implement the NWCS interface to the I-S/A AMPE; NWSS software efforts to process JINTACCS to the I-S/A AMPE; NWSS software efforts to unit (JTU);	NESS software modifications to allow utilization of upgrade
11) 11	(21	13)	14)	16)	17)	18)	

10 5,025 3,379	196	-5, 803) -3, 782 -2, 421 -630 (-100) -100
employees Retirement System (FERS) participation.  78) Increase for additional civilian personnel at Fleet Surveillance Support Command (FLTSURVSUPPCOM) for support of operational requirements of deploying Relocatable Over the actizon Eadar (ROTHR) systems. (+ 6 Civ E/S, + 3 Civ W/Y) 29) During FY 1991 operations at ROTHR Detachment 2 {*Thesapeake, VA} begin, requiring increase for mission communications, systems power and contracted support for system cperations and maintenance. 30) Buring FY 1991 operation at ROTHR Detachment 3 (GUAN/Tinian) begin, requiring increase for mission communications, systems power, Detachment OPTAR/support, travel, and contracted support for system operations and	maintenance.  During FY 1991 preparation for operations at ROTHR Detachment 4 (GUAM/Tauian) begin, with operating cost starting in the 1st quartar of FY 1992, requiring an increase for start up and check but of mission communications, systems power, Detachment Operational Target/support, travel, and contracted support for system operations and maintenance.  32) Increase for operationally generated, site specific changes to ROTHR system software required as new detachments are established.	a. One time FY 1990 Costs  a. One time FY 1990 Costs  1) Decrease in TAGOS activation costs for work accomplished in FY 1990 on TAGOS 12, 16, 17, 18, and 19.  2) Decrease for deactivation of USNS Neptune.  3) Decrease for MIZAR habitability one time upgrade.  b. Annualization of FY 1990 decreases  1) Annualization of the Transfer of resources to BA 7 in FY 1990  1) Annualization of the Transfer of resources to Ba 7 in FY 1990  1) Annualization of the Transfer of resources to ba 7 in FY 1990  1) Annualization of the Transfer of resources to ba 7 in FY 1990  1) Annualization of the Transfer of resources to BA 7 in FY 1990  1) Annualization of the Transfer of resources to ba 7 in FY 1990  1) Annualization of the Transfer of resources to BA 7 in FY 1990  1) Annualization of the Transfer of resources to BA 7 in FY 1990  1) Annualization of the Transfer of resources to BA 7 in FY 1990  1) Annualization of the Transfer of resources to BA 7 in FY 1990  1) Annualization of the Transfer of resources to BA 7 in FY 1990  1) Annualization of the Transfer of resources to BA 7 in FY 1990  1) Annualization of the Transfer of resources to BA 7 in FY 1990  1) Annualization of the Transfer of resources to BA 7 in FY 1990  2) Annualization of FY 1990 decreases
27) 78) 24) 30)	. ₩	Prog. a. 0

ن	Othe		(-10,352)
	=	Sechnical Services (CETS) for	-758
		fighter, patrol and electronic warfare aircraft and reduced	•
		weapons and maintenance support reviews.	4
	2}	Decreased Navy Engineering Technical Services support for	-446
		Attack, Fighter and Electronic Warfare Aircraft.	
	8	NCCS Ashore - Phased transition of OSGP to the Operational	-104
		Support System (OSS).	
	4)	Electronic Warfare Operations Center reduction in Signal.	-258
		Security In Service Engineering Agent and hardware and software	
		support for Signal Security Systems, and reduction in on-site	
		operation support and management technical services associated	
		with system installations.	
	2)	r MK-48 proficiency firings.	-555
	6	Reduced requirements for Contractor support for Joint Operational	-186
		Tactical System (JOTS).	1.
	1	Decrease in spare parts support required for support equipment	-326
		used to collect Anti-Submarine Warfare oceanographic and	
		acoustic data.	
	8	Decrease in Ship operations Electronic Marfare direct support	-348
		augmentations of the Furcincs.	
	6	Elimination of support for the Cryptologic Field Trainer.	-123
	10)	Elimination of software support for Mobile Systems Technical	-250
		Data Facility provided by NAVSECGRUACT Pensacola.	
	11)	Decreased maintenance support for tactical carry-on equipment	-97
		and prior year cryptologic equipment procurement.	
	12)	Decrease is spare parts support required for support equipment	-155
		used to collect ASW oceanographic and acoustic data.	
	13)	Tactical Flag Command Center (TFCC) decrease reflects reduction	-170
		in software support; and reduction in management support	•
		level of effort.	
	14)		-2,885
		of technical support associated with computer software, on-site	
		operations support, management/technical services dealing with	
		Integrated Logistics Support documentation, and management/	
		technical services associated with hardware installation	
		site preparation.	,
	15)	Maritime Defense Zone (MDZ) site installations deferred	-127
		until 1992.	

FY 1991 President's Budget Pequest

10.

III. Performance Criteria	FY 1988	FY 1989	FY 1990	FY 1991 .
Combat System Readiness	649	651	677	899
Crypto support Shipborne missions Airborne missions Units Serviced by Test Groups	165 1,650 1,350	130 1,575 1,150	125 1,500 1,100	115 1,350 950
Ship - Temporary Additional Duty (TAD) Per Diem Days	763,980	737,843	728,297	732, 673
Anti-Submarine Warfare Operations Centers (ASWOC) Number supported	20	20	20	20
Undersea Surveillance - TAGOS Operations (Fleets) number ships/(\$000)	27, 463	16	19 <b>4</b> 3, 154	21 49, 404
Undersea Surveillance (COMSPAWARSYSCOM)  SOSUS  Cable & Survey Ship Support (\$000)  (Ship Days)  Maintenance/Install/Restore/Material/Fleet Support/ Special Projects/Travel	00 /	29,221 1,460 103,774	26,192 1,399 103,940	25,099 1,460 114,387
<u> </u>	0	45, 397 4, 198	53, 504 6, 109	61,585 6,935
Fleet Electronic Command & Control (COMSPAWARSYSCOM)  Ashore Programs - (WY/\$000)  Afloat Programs (TFCC/NCCS-A) - (WY/\$000)  ROTHR Operational Sites	391/42,116 366/39,523 124/8,232 72/6,379 0 1	366/39, 523 72/6, 379	474/50,057 92/8,956 1	7 466/51,911 6 87/9,036 3
Ship Operations Electronic Warfare Support FW Systems (total/upgrades)	26/2	26/3	26/4	26/5
AN/ULQ-16/Chaff, Active Electronic & Inflatable Decoy Bouy-AN/SLQ-49 (WY/\$000)	509/4,508	509/4,508 631/3,191 631/3,817 700/3,796	631/3,817	700/3,796

FNDH

Department of the Navy Operation & Maintenance, Mavy

> Activity Group: Budget Activity:

Other Warfare Support 2 - General Purpose Forces

### . Description of Operations Financed.

Funding in this activity group supports a variety of warfare tactics, development and execution efforts These efforts include warfare tactic: designed to improve and enhance Naval Warfighting capabilities. development/documentation, and exercise support and analysis.

### Operational Readiness Assessment (ORA):

installation of monitoring instrumentation aboard ships and aircraft, data collection, data verification maintainability, and availability (RM&A) analysis. Fleet exercise reconstruction and analysis provides ORA concentrates chiefly in providing fleet exercise reconstruction and analysis and reliability, support to COMMAVSEA acquisition program managers and others for such efforts as exercise planning, and reconstruction, data analysis, and reporting exercise results to participants and planners. program provides support to all multi-threat, multi-warfare scenario exercises.

and fleet operational combat systems RM&A equipment trends and problem definition for selected surface AAW and ASW combat systems. During normal operational deployment, combat system equipment operational status is recorded, collected and analyzed. From this data accurate operational RM&A indices are computed, and RM&A analysis provides program managers and fleet commanders with both logistic support planning duta those factors limiting RM&A are analyzed and reported for corrective action.

#### Warfare Tactics Documentation:

equipment and systems, mobilization planning, threat assessments, requirements definition, and fleet deployment operations planning. The product provides fleet users with detailed force deployment data and methods of using data in a timely manner. Both the Tactical Air Combat Training System (TACTS) and the Mid-Atlantic Electronic Warfare Range are used for tactics development and definition. assimilation, analysis, and formulation of data into warfare concepts of utilization for existing Warfare Tactics Documentation provides funding for definition, specification, verification,

#### Fleet Exercise Logistics Support:

To train forces contribute effectively to overall military objectives. To execute and enhance these capabilities, fleet exercises provide required training in simulated wartime scenarios. Fleet exercise participation enhances fleet unit proficiency in operating and employing weapon systems and wargame strategy. To train units effectively in various geographical, climatic, and diversified economic and political areas, fleet units must deploy to all parts of the world. Funding in this activity group will be used to plan and It is essential that full utilization and exploitation of weapons, techniques and capabilities of execute training deployments and redeployments to maintain maximum readiness and rapid deployment capabilities throughout the fleet areas of responsibility.

#### Tactical Training/Wargaming Support

The Tactical Training/Wargaming Support program is directed toward the phase-in of advanced concepts in operating and technical support for the new systems at the Fleet sites, as well as for associated tactical Newport. Funding in this activity group provides support for the Tactical Training Groups at Norfolk and tactical training for battle group commanders and senior staff officers. This objective is accomplished Tactical Training Groups, wargaming strategies and concepts are brought directly to the Fleet for their evaluation and participation. Funds are required for site preparation, installation of equipment, through the addition of new curricula centered around, but not limited to, the Enhanced Naval Warfare Gaming System and evolutionary development of the basic wargaming system at the Naval War College in San Diego which have substantial computerized equipment linked by land lines to Newport. training support.

#### Naval Warfare Management

The Naval Warfare Management program provides specialized analytical support for the Naval Warfare Appraisal process and the updating of master plans for selected warfare areas.

# II. Financial Summary (Dollars in Thousands).

#### A. Sub-Activity Group Breakout.

	FY 1991	Budget	Request	5,581	42,089	9,361	, (	5, 151	5,092	7.0 63	510110	Finount	62,640	6	2,219		•	•							2 201	10212	2,201				
	FY 1990	Budget	Request	5,722	40,727	8,972	1	5,388	4,646	72 455	65, 433					(23)	23	(33)	က္ဆ	<del>(</del> -3	7)	(566)	(122)	(i, 778)				Oberations	o to		
		Current	Estimate	6,025	39, 396	8,344		6, 154	2, 721		050 779																دائنان مد	Electronic Mariate Analysis and master rian consolinations:	Filling Claimster to mayar marrare management from Sing of the Electronic Warfare Support with in Budget Activity Two to	y group.	
FY 1589		Appro-	priation	6,020	39, 682	7,938	,	2,322	2,721	1 6 7 6 1	38, 683	ases.			•	ay Raise										S	iii na Wantor Di	nd Managemen	th in Budget	consolidate the program under one activity group.	
	Amended	Budget	Request	6,078	39,926	7,973		2,324	2,721	1 6	220,622	es and Decre			•	Annualization of FY 1939 Direct Pay Raise		ise						iencs		ers	Transfers in: Incre-Appropriation	e Andlysts d	re Support wi	program under	1
		FY 1988	Actual	5,873	32,572	7,652		7,588	4,539		58, 224	of Increas	Estimate		its:	ion of FY 1	fied	rect Pay Raise	Fied		i e	Fund Rates	rrency	ing Adjustm	E	gram Transi	in: incre	onic Warran	onic Warfan	idate the	•
				OP READINESS ASSESSMENT		PPORT	TACTICAL TRAINING /	WARGAMING SUPPORT	NAVAL WARFARE MANAGEMENT		TOTAL ACTIVITY GROUP	B. Reconciliation of Increases and Decreases.	1. FY 1989 Current Estimate		2. Price Adjustments:	A. Annualizat:	1) Classified	B. FY 1990 Direct	1) Classified	C. Stock Fund	1) Non-Fuel	D. Industrial Fund Rates	E. Foreign Currency	F. Other Pricing Adjustments		2	A. Translers	1) Electric	Fullds	consol	

1,345				-2,950	
(1, 345)	98	40 53	377	(-389) -247 -142 (-2,561) -221	-307 -323 -676
<ol> <li>Program Increases:         <ul> <li>A. Other Program Increases in FY 1990</li> <li>I increased use of desk top publishing systems to support increasing number of tactical publications with current level of personnel. Output capability will increase.</li> </ul> </li> </ol>	2) Increase support required for pre-wargame preparation, game conduct and post game analysis; increased support for Battle Force In-port Trainer (BrIT), Joint Operational Tactical Systems, Enhanced Naval Warfare Gaming Systems (JOTS/ENWGS) interfaces and increased maintenance of the Naval Warfare Tactical Data Base expansion.	3) Realignment of NAVSEA travel from centrally managed account to appropriate program lines. 4) Increased emphasis on Battle Group Exercise Support, reconstruction and analysis and the Navy Lessons Learned	5) Increased travel, supplies, spare parts support and transportation of equipment based on exercise schedules.  6) Increased Range support and Data Link line support required for operation of Pinecastle Range and other LANTFLT and PACFLT TACTS ranges to support additional fleet exercises in FY 1990.	5. Program Decreases:  A. One-Time FY 1989 Costs  1) Design costs for Key West TACTS range.  2) Exercise Sharp Spear.  B. Other Program Decreases in FY 1990  1) Reduction in production costs for Naval Warfare and Allied Tactical publications, due to slip from	of effort for Naval Warfare delay in publication maintenance fleet publications. cancellation of the Consolidated Navy Training Plan, special deception d Battle Group EW Equipment, ncide with finalization of rogram.

. •	65, 455	1,966	1,678
-986		(13) 13 (56) 56 (6) (6) (7) 12 12 12 12	(8) 8 (1,670) 388 , 232 89 89 n
<ul> <li>5) Management initiation to reduce Contractor Advisory         Assistance Support (CASS) for Enhanced Haval Warfare         Gaming Systems (ENWGS) training.</li> <li>6) Revised annual contract cost for 600 hours Mediterranean         Target Towing Services.</li> </ul>	6. FY 1990 President's Budget Request	7. Price Adjustments: A. Annualization of FY 1990 Direct Pay Raise 1) Classified B. FY 1991 Direct Pay Raise 1) Classified C. Stock Fund 1) Non-Fuel D. Industrial Fund Rates E. Foreign Currency	y for Civilian Employment in Y 1991 nd warfare task appraisal required Ce Warfare, Mine Warfare, d Special Warfare, ication which slipped from FY 1990 of updates to existing Naval ctical publications based on d spare parts required for the stallation at Cherry Point uirements. Cherry Point, Tactical Air Combat TS) range and Mid Atlantic nge (MAEWR) for greater utilizatio g opportunities. Flag and other stuior officer ed on changing requirements.
	9	7	<b>∞</b>

6) Revised annual contract cost for 600 hours of Mediterranean Target Towing Services.  9. Program Decreases:  A. Other Program Decreases in FY 1991  1) Decrease in emphasis on the Navy Lessons Learned Pro 2) Decrease reflects Battle Group EW Equipment Integrat being reduced to match the completion of the Apprent Level Training Program.  3) Reduced operations at selected PACFLF ranges in order to meet shifting Operational requirements.	106	-1,225 gram69 ion -246 ice -910	67,874
	6) Revised annual contract cost for 600 hours of Mediterranean Target Towing Services.	A. Other Program Decreases in FY 1991  A. Other Program Decreases in FY 1991  1) Decrease in emphasis on the Navy Lessons Learned Program69  2) Decrease reflects Battle Group EW Equipment Integration -246  being reduced to match the completion of the Apprentice Level Training Program.  3) Reduced operations at selected PACFLT ranges in	FY 1991

Activity Group: Other Warfare Support (cont'd)

	1.			
FY 1991	26	FY 1991	129 71 58	0 0 0 E
FY 1990	26	066	129 71 58	0 0 3   3   3
FY 1983	26	FY 1990	<b>,</b>	
FY 1988	25	FY 1989	$\frac{128}{71}$	67 0 0
E.S.	Memorandum, oraisals	FY 1988	384 119 265	ଅଟି ୦ ୦
HAVAL WARFARE MANAGEMENT	Program Objective Memorandum, Warfare Task Appraisals	Personnel Summary. End Strength E/S	A. Military Officer Enlisted	B. <u>Civilian</u> USDH FNDH

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Department of the Navy Operation and Maintenance, Navy

Activity Group: Fieet Air Training Budget Activity: II - General Purpose Forces

## I. Description of Operations Financed.

Readiness Squadrons (FRS). The operations financed in this program are the day-to-day operating cost. for This program provides funds for flying hours and aviation training support of Navy/Marine Corps cleet civilian labor, administrative supplies, materials, equipment, maintenance service contracts, and tra el of personnel required in support of the training mission.

fleet squadrons in air-to-air combat training. This activity group also supports training operations at squadrons. The other four squadrons provide flight training to fleet pilots, and adversary services to Fleet Air Training. There are 28 Navy and 8 Marine Corps Fleet Readiness Squadrons funded in this communities in weapons tactics training, weapons delivery qualifications and, where applicable, carric landing qualifications. Graduates of these readiness squadrons are qualified for assignment to activ the Naval Fighter Weapons School at NAS Miramar, and the Naval Strike Warfare Center at NAS Fallon. program. Thirty two squadrons train replacement aircrews for the Navy and Marine Corps TACAIR/ASH

personnel rotation rates, and Pilot Training Rate (PTR) output from the Naval Undergraduate Pilot Training per operating hour for each aircraft is based on actual operating data over the previous 18 mouth period. Programs. Funds requested include the cost of petroleum, oil and lubricants (POL), organizational and Student training levels are based on authorized TACAIR/ASW force levels and aircrew/maintenance intermediate (OfI) maintenance, squadron supplies, and Aviation Depot Level Repairables (AVDLR).

their mission of conducting replacement aircrew training. Included in this program are the fleet Avi vion Fleet Air Training Support. The purpose of this program is to support Navy/Marine Corps FRSs in Specialized Operational Training Groups (FASOTRAGRU) Atlantic Fleet and Pacific Fleet.

## Activity Group: Fleet Air Training (Continued)

The mission of the FASOTRAGRUS is to provide training in weapon systems and equipment (including special weapons) and to maintain proficiency by conducting special program inspections. Associated training of personnel includes:

Anti-Submarine Warfare Equipment/Tactics. Anti-Ship Missile Defense Equipment Tactics.

Electronic Warfare Equipment Tactics/Radar Navigation/Communication/other

electronics aircraft systems and equipment.

Land survival, Evasion Techniques, and Prisoner of War conduct. Special weapons delivery tactics, procedures, and handling.

The Training Groups are responsible for operation and maintenance of flight simulation facilities, including weapons system trainers and operational flight trainers, film libraries, associated aviation training aid/devices and equipment.

# ii. Financial Summary (Dollars in Thousards).

,	FY 1991	Budget	Request	376,648	10,394	5,171	41,356	433, 569
	FT 1990	Pudget	Request	382, 721	10,271	5,082	40,843	438,917
		Current	Estimate	346,303	8,317	4,166	38, 100	395, 886
FY 1989		Appro-	priation	379,589	8,301	4,166	41,647	433, 703
	Amended	Pres.	Budget	379,589	8,461	4.406	44,214	436,670
		FY 1988	Actual	175.946	5,280	3, 933	30,079	415,238
. Sub-Activity Group breakout.				1 Aircraft One	1. Allocate Oro	2 Pir TAD	4. Other A/C Support	lital

₩.

Rec	Reconciliation of Increases and Decreases.	\$ in 000	
1.	FY 1989 Current Estimate	396,886	
	Pricing Adjustments A. Annualization of FY 1989 Direct Tay Raises 1) Classified 2) Wage Board B. FY 1990 Direct Fay Raises 1) Classified 2) Wage Roard 3) Foreign Mational Direct C. Stock Fund 1) Fuel 2) Non-Fuel D. Industrial Fund Rates E. Other Pricing Adjustments	(148) (148) (136) (136) (136) (119) (12, 133) (2, 130)	
က်	A. Other Program Growth in FY 1990  1) Squadron Transitions/Upgrades. Increase in training requirements to support squadron transitions and upgrades.  Squadron Sturents Hours Amount F/A-18C 51 9,363 19,781  Sil-63F 61 1,109 2,182  S-3B 67 1,109 2,182	77, 903) 26, 154	
	icrease of 8,286 additional stude rease of 1,516 ho additional stude due to lower PTR	14,686 2,165	

8

ing (Continue \$ in 000												-25,560		
Air Traini		1,087	5,743	9, 631	1,543	8.291		888		3,522	4, 193	(-25, 560)	-19,543	
Activity Group: Fleet Air Training (Continue Reconciliation of Increases and Decreases (Continued).	4) P-3 (ORION). Increase of 2,672 hours in training requirements for 79 additional students reflects loss of students in FY 1989 due to lower PTR output. Increase is required to meet TACAIR	aircrew training requirements. 5) F-16 (FALCON). Increase in F-16 maintenance contract to support	additional detachment site to replace F-21 adversary aircraft.  6) Increase of 6,805 hours for adversary aircraft squadrons to	support increase of FRS aircrew training requirements.  7) Increase of 823 hours in training requirements due to change in syllabus hours for AV-8B and F-14 to reflect introduction of	AV-8B Night Attack Version and F-14A+.  8) Net increase of 7,967 hours in training requirements for 60	tactics training, weapon delivery application, and carrier landing qualifications.	9) Increased travel requirements due to additional training		10) Increase in Operating support, supplies, materials, equipment, maintenance service contracts in support of increased training requirements at FASOTRAGRUS, Naval Strike Warfare Center and	Navy Fighter Weapons School.  11) Increase in Contract Simulator Instruction (CSI), Aviation Training Support System (ATSS), and Instructional Systems		4. Program Decreases a. Other Program Decreases in FY 1990	uadron Transitions/Upgrades. Decrease in training quirements to support squadron transitions and upgrades.	Squadron Students       Hours Amount         A-7       -13       -2,088       -2,185         F/A-18A/B       -51       -6,955       -13,655         SH-3H       -58       -4,041       -2,724         S-3A       -33       -741       -979

\$ in 000		-27,374		433, 569
	5, 222 1, 609 51	(-27, 374)	-8,021 -3,216 -2,770 -4,532 -1,127	
B. Reconciliation of Increases and Decreases (Continued).	<ul> <li>E/A-18D (HORNET). Increase of 3,671 hours in training requirements for 25 additional students in support of F/A-18D TACAIR missions.</li> <li>F-14D (TOMCAT). Increase of 800 hours in training requirements for 10 students to support introduction of F-14D aircraft.</li> <li>Increased travel requirements due to additional training requirements and students.</li> <li>Increase in operating support, supplies, materials, equipment, maintenance service contracts in support of increased training requirements at FASOTRAGRUS, Naval Strike Warfare Center and Navy Fighter Weapons School.</li> </ul>	8. Program Decreases in FY 1991 1) Squadron Transitions/Upgrades. Decrease in training requirements to support squadron transitions and upgrades.  Squadron Students Hours Amount A-7E -27 -3,762 -4,096 S-3A -7 -896 -1,229	burs in F-14A training burs in F-14A training burs in adversary aircrining requirements.  AVDLR cost per hour as 9 hours in FRS training Operation and Mainten in mix of simulators in personnel (-79 E/S) a contract instructors.	9. FY 1991 President's Budget Request

III. Performance Criteria.

	Cost (\$000) 346, 302		Cost (\$000) 376,647	1,444	FY 1991 107 312, 824
FY 1989	Flying Hours 238,376 352	FY 1991	Flying Hours 260,874		
	Average Operating Aircraft 678		Average Operating Aircraft 681		FY 1990 102 301, 318
	Cost (\$000) 375,946	į	Cost (\$000) 382,721	1,428	FY 1989 102 321, 635
FY 1938	Flying Hours 253,058 357	FY 1990	Flying Hours 268,090	397	FY 1988 96 272,449
	Average Operating Aircraft 708		Average Operating Aircraft 675		roups s mmed
A. Aircraft Operations	Hours per Aircraft Cost per Hour			Hours per Aircraft Costs per Hour	Operational Training Groups Major Training Devices Simulator Hours Programmed
A. Ai					á

#### IV. Personnel Sumary.

filitary E/S	FY 1988 16,913	FY 1989 16,984	FY 1990 16,531	16,557
Officer	2,550	2,561	2,560	2,563
Enlisted	14,363	14,423	13,971	13,994
ivilian E/S	301	356	350	271
USDH	286	341	335	256
FNDH	15	15	15	15
FNIH	0	0	0	0

Department of the Navy Operation & Maintenance, Navy Exhibit OP-05

Activity Group: Fleet Ship Training Rudget Activity: 2 - General Purpose Forces

### Description of Operations Financed.

underway and import training and assistance visits aboard ships, shipboard inspections of special weapons, The costs of using Functions which are financed within this program include classroom instruction, shipboard training, fleet training ranges and developing post-exercise analysis for range users are also included shake lown and refresher training, and shipboard team training using mobile simulators.

The funding requested under this program is specifically used for the accomplishment of the following types of training: Special Weapons Training. Includes funding to support special weapons technical inspections and assist Special Weapons Acceptance Inspections are conducted to ensure that indertrination, in special weapons, chemical warfare programs, and biological research) provide trained anapons subject areas (including basic fundementals, logistic support, safety, officer orientation and ensure that training, security, safety, emergency, technical, command and control, and administrative procedures comply with established guidelines and regulations. Classroom training in various special Weapons Technical Proficiency Inspections are conducted on board ships which carry special weapons to a ship is capable of properly handling nuclear weapons prior to their placement aboard ship. Special Shipboard special weapons training emphasizes security, weapons handling, administration, emergency destruction and accident response. visits where fleet units are located. personnel directly to fleet units.

firefighting, gunnery, navigation, engineering, communications, shiphandling, basic seamanship, and in the ship's primary warfare areas so that the ship is more prepared for combat and can safely and effectively raining that the crew has received. The same facilities and personnel that are used for the training of includes electronic warfare training and weapons systems team training. The time required for training constructed, reactivated, or overhauled and are preparing for overseas deployments and fleet exercises. participate in fleet operations. In addition to underway training, crews receive inport training that can range from two days to seven weeks, depending upon the size of the ship and the previous underway Shakedown and Refresher Training. This training is conducted for ships which have recently been U.S. Mavy ships are also used for the training of ships from the Coast Guard and foreign Mavies. Training is provided and exercises are conducted in key shipboard areas such as damage control,

in this area are designed to facilitate tactical proficiency at the unit, squadron, and battleyroup le :1s the use of mobile vans that are designed to simulate a variety of at sea threat environments. Functions Inport Tactical Training. Includes schoolhouse and pierside tactical training, which is supported 1/2 of operation.

Training Teams, whose mission is to train personnel in correct engineering practices and to assist them in Engineering Training. Includes school house training and cyclic visits to ships by Engineering Holite condition, preservation and cleanliness, administration, level of personnel knowledge, training, drill preparing for periodic propulsion examinations and inspections. During these visits the ship's main propulsion and damage control organizations are examined and evaluated in such areas as material and various other evolutions. Funding for training range operations provides aerial and surface targets, electronic Funding is also used for post-exercise reconstruction and analysis to determine how well individual units warfare training, anti-submarine warfare readiness effectiveness measuring, and mine recovery operations. perform while operating on the ranges. Training Ranges.

# II. Financial Summary (Dollars in Thousands).

### A. Sub-Activity Group Breakout:

	•	_ EY	FY 1989				
		Amended		Current	FY 1990 Budget	FY 1991 Rudget	
	FY 1988	Request	priation	Estimate	Request	Request	
Flt. Ship Training	7,165	5,253	5,227 5,443		5,935 6,054	5,054	
Support Fleet Training Ranges	39,066	37,822	37,768	37,798	36, 408	38, 481	
Total Act. Group	46,231	43,075	42,995	43,241	42,343	44,535	

€.

Amount	43,241	1,259	1,237
		(33) 33 (41) (41) (-58) -56 -2 (363) (880)	(236) 236 236 (1001) 813
Reconciliation of Increases and Decreases.	1. FY 1989 Current Estimate	2. Pricing Adjustments A. Annualization of FY 1989 Direct Pay Raises 1) Classified B. FY 1990 Direct Pay Raises 1) Classified C. Stock Fund 1) Fuel 2) Non-Fuel D. Industrial Fund Rates E. Other Pricing Adjustments	3. Program Increases  A. One-Time FY 1990 Costs  1) Increase provides for an advanced level on-the-job training package for AN/ULQ-13 simulation vans.  B. Other Program Growth In FY 1990  1) Increase for the Multi-Unit Tactical System (MUTTS)/Battle Force Inport Training (BFIT) program. This program provides a means to train, exercise, and evaluate the basic warfighting readiness of battleforce equipment and personnel without being underway. It also provides a unique opportunity to evaluate tactics and the ability of tacticians to support national strategy and objectives. The primary goal of MUTTS/BFIT is to complement underway training by providing factical and command and control training inport so that ships' crews can more rapidly transition to higher quality/advanced training while at sea. By enhancing operator

·		-3, 394		42,343	1,335
179 8	,	(-3, 394) -2, 596 -699	66-		(17) 17 (63)
MUTTS/BFIT reduces lost training opportunities during the limited amount of time that ships spend at sea.  2) Increase in contractor technical support for the Wide Area Active Surveillance (WAAS) radar system at the Atlantic Fleet Weapons Training Facility (AFWTF). The WAAS radar is a one-of-a-kind system (the latest phased array technology) specifically built for the the AFWTF. Increased contractor support is required to correct technical problems such as premature and/or intermittent drop of tracks, false target tracks, and late detection with the radar system.  3) Personnel benefits increase associated with			and shipboard training. Reduction is based on anticipated efficiencies and a decrease in previously projected estimates of student throughput in FY 1990 and beyond.  3) Decrease of four work years of effort in training support.	5. FY 1990 President's Budget Request	<ul> <li>6. Pricing Adjustments</li> <li>A. Annualization of FY 1990 Direct Pay Raises</li> <li>1) Classified</li> <li>B. FY 1991 Direct Pay Raise</li> </ul>

14) 8 6 9) 1,282				DI m	
63 (34) 18 16 (462) (759)	(1,273) 220	31	163	12	839
1) Stoc 1) 2) Indu Othe	day in FY 1991.  ther Program Growth In FY 1991.  Increase to provide for an apprentice level on-the-job training package for AN/SSQ-74 multi-purpose cover and	J 12 1	3) Increase for a communications link that will provide for adequate Underwater Tracking Range (UTR) surveillance and interface between range participants and will improve range training data used in post-exercise reconstruction, analysis, and evaluation.	4) Increase to support minor adjustments to service craft ovehaul schedules. 5) Increase to support personnel benefits associated with Federal Employees	6) Increase in operation of Pacific Missile Test Center, Pacific Missile Range Hawaii, and FACER program. Increase is required to support additional live training and exercises such as MINEX's and BOMBEX's to prepare ships and aircrews for deployment and to maintain the desired levels of combat readiness for non- deployed units.
् जुल्ह्	æ				
7.					

-425				
(-243)		(-182)	-182	
8. Program Decreases A. One Time FY 1990 Costs	1) Decrease to reflect the completion of the the advanced level training package for the	AN/ULQ-13 simulation vans in FY 1990.  R. Other Program Decreases in FY 1991.	1) Decrease of five work years of effort	in training support and reduction in the operation and employment of new equipment.

Request
Budget
President's
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111.	Performance Criteria.	FY 1988	FY 1989	FY 1990	FY 1991
	Courses Scheduled Number of Classes Scheduled Student Throughput Average Number of Students in Training	297 1,645 156,748 2,968	312 1,713 158,652 3,050	319 1,796 160,523 3,088	320 1,822 160,683 3,091
	No. of Ships Scheduled for Refresher Training Special Weapons Technical Inspections Personnel Trained in Special Weapons	203 287 2,065	206 285 2,279	196 287 2,279	204 287 2,279

#### V. Personnel Sumary

FY 1991	2,257 387 1,870	93
FY 1990	2,260 388 1,872	104
FY 1989	2,246 382 1,864	104
FY 1988	2,442 419 2,023	95
End Strength (B/S)	A. Hilitary Officer Enlisted	B. Civilian USDH

Department of the Navy Operation & Maintenance, Navy

> Activity Group: Budget Activity:

Unified Commands 2 - General Purpose Forces

### . Description of Operations Financed.

day-to-day operating cost of these commands, including pay of civilian personnel, administrative supplies and equipment, travel, training, maintenance of office equipment, utilities, and communications. (USCINCPAC), subordinate commands, and special tri-service programs. The funds requested provide for the The unified commands direct tri-service forces in joint operations in support of national objectives. The unified commands supported are the Commanders in Chief, U. S. Atlantic (USCINCLANT) and Pacific

within their respective areas of responsibility. The total defense-wide cost of the program is the net of includes service charges and interest income earned on investable balances of accounts maintained at the The cost of this program is determined on a defense-wide basis and allocated to the services in relation to the banking facilities banking facilities. Funds required for Overseas Military Banking vary inversely with interest rates. expenses and income. Expenses include normal operating expenses and a fixed management fee. Income Funds in this program are also requested for Overseas Military Banking.

# II. Financial Summary (Dollars in Thousands).

#### A. Sub-Activity Group Breakout.

			222		0001	1001
	FY 1988 Actual	Amended Budget Request	Appro- priation	Current Estimate	Request	Budget Request
Unified Commands	31,784		21, 435	26, 332	31,958	33, 965
Total Act. Group	31,784		21,435	26, 332	31,958	33,965

B. Re	Reconcil	liation of Increases and Decreases.	Amount
1.	FY 1	1989 Current Estimate	26,332
2.		Price Adjustments A. Annualization of FY 1989 Direct Pay Raise (109)	1,117
	Ę,	1) Classified 2) Foreign National Direct 9 FY 1990 Direct Pay Raise (193)	
-		fied n National Direct	
	ပံ	Stock Fund (8)  1) Non-Fuel 8	
	<u>.</u>	und Rates	
	. · ·	Adjustments (3	
ä.	Funct A. 1	ional Program Transfers ransfers In - Inter Appropriation	400
		I) Joint Doctrine Center transfer from U.S. Air Force 400 to U.S. Navy (USCINCLANT).	
4	Pro		5,765
	ď.	One-Time FY 1990 Costs  1) Increased funding support for Combined Operations 500 Center support at ISCINCLANT	
	æ	Other Program Growth in FY 1990  1) Increase is to fully fund the Caribbean Basin 4,000	
		÷	
		requires increased emphasis on CINC involvement in Joint Exercises; management of interoperability issues and increased theater special operations elements.	
. •			
		! !	

Foreign Currency Adjustments Other Pricing Adjustments  ram Increases: Dne-Time FY 1991 Costs  1) One additional workday of civilian employment in FY 1991.  Other Program Growth in FY 1991  Additional increase for Caribbean Basin Surveillance (JARCC Radar Upgrade) and increased contract service in support of JARCC Key West Radar Upgrade).  Increase in requirements for Joint Exercise, Solid Shield, which require additional land rights and equipment.  Increase is in support of the ADP and communication system at Combined Operations Center, Keflavik facility.  Tam Decreases:  In Combined Operations Center Center Purchases of the Program Growth in FY 1991  Combined Operations Center Center at USCINCPAC.  Decrease in support services and other purchases due to revised program requirements at USCINCPAC.  Decrease in program efforts for WARGAMES as a result of management review.  Reduction of 10 Civilian end strength due to the Dob Inspector General initiative to reduce administrative oversight (Van Der Schaff Study). Includes annualization of 7 end strength reduced in FY 1990.	(-15) (548)	3,251 (40) ployment 40	(3,221) in 1,000 d of JARCC	ercise, l land rights	communication 2,000 Keflavik	-2,168	-516 (-1,652) purchasea -1,173	GCS as a -61 due to the DoD -412	ative
B. G. C.	<ul><li>F. Foreign Currency Adjustments</li><li>G. Other Pricing Adjustments</li></ul>	Program Increases: A. One-Time FY 1991 Costs 1) One additional workday of civilian employment	Othe 1)	2) Increase in requirements for Joint Exercise, Solid Shield, which require additional land rights	3) Increase is in support of the ADP and communication system at Combined Operations Center, Keflavik facility.	Program Decreases: A. One-Time FY 1990 Costs	<ol> <li>Combined Operations Center</li> <li>Other Program Growth in FY 1991</li> <li>Decrease in support services and other purchases due to revised program requirements at USCINCPAC</li> </ol>	<ol> <li>Decrease in program efforts for WARGAMES as result of management review.</li> <li>Reduction of 10 Civilian end strength due to</li> </ol>	

III. Performance Criteria.								
	FY 19		FY 1	686	FY 19	06	FY 1991	
	OFMINS CIA	CIV	OEMN\$ CIV	CIV	OFMN\$ CI	CIV	OFFINS CIV	<b>.</b>
USCINCLANT	6,275	89	6,692	75	11,710		14,302 6	00
USCINCPAC	15,990	189	12,980	193	13,579	189	12,953 18	~
COMUSNAVSO	704	₹	371	4	331		329	_
CNO WARGAMES	1,405	. *	1,680		1,726		1,758	
Overseas Banking	4,664		4,599		4,612		4,623	
Joint Chiefs of Staff/CINCS			•					
Summer Conference	1,303			•				
Classified Project	1,443							
Total	31,784	792	26,322	272	31,958	265	33,965 255	
				• •				
IV. Personnel Sumary.		* ***						
End Strength E/S	<b></b>	FY 1988	FY 1989	686	FY 1990		FY 1991	
A. Military		826		826	801		179 F1F	
Officer Enlisted		469		3 <i>12</i> 454	446	•	432	

Civilian USDH FNDH

Activity Group: Budget Activity:

Fleet Commands and Staffs 2 - General Purpose Forces

### Description of Operations Financed.

including employment of all units (ships, aircraft, support activities and other related units). They plant for, and when required, conduct operations to protect assigned forces, control vital sea areas, and protect Fleet Commands and Staffs exercise command, operational control and coordination over assigned force. sea lines of communications.

directly to the Chief of Naval Operations and directly supporting the operating forces. Funding also pay. for the operation of Armed Forces Radio and Television service, the Mavy Imaging Command and Mavy Internal The funds requested provide for the day-to-day operating costs of the Commander-in-Chief, U.S. Naval Forces Europe, the Atlantic and Pacific Fleet Commanders and their staffs, and other staffs reporting Relations Activity.

# II. Financial Summary (Dollars in Thousands).

#### . Sub-Activity Group Breakout.

•			FY 1989			
		Amended			FY 1990	FY 1991
	FY 1988	Budget	Appro-	Current	Budget	Budget
	Actual	Request	priation	Estimate	Request	Request
Staff Administration	90,560	77,292	76, 983	.77,216	79,983	80,159
Armed Forces Radio						
£ Television	8,867	8,968	8,850	9,013	8,881	9,173
Navy Imaging Command	7,778	6,927	6,823	6,846	7,495	7,714
		1 0 0 1	1	1		1 1 1 1 1 1
Total Activity Group	107,205	93,187	95,656	93,075	96,359	97,046

Reconciliation of Increases and Decreases:		Amount
FY 1989 Current Estimate		93,075
Pricing Adjustments: A. Annualization of FY 1989 Direct Pay Raise 11 Classified	(485)	2,654
2) Wage Grade 3) Foreign National Direct B. FY 1990 Direct Pay Raise 1) Classified	4 14 (739) 697	
	1 41 (26) -3	-
D. Industrial Fund Rates E. Foreign National Indirect Hire F. Foreign Currency fluctuations G. Other Pricing Adjustments	(290) (19) (150) (964)	
	lation. Civilian 687 to the Naval Purpose Forces ociated Activities,	1, 985
to achieve a consolidated NAVSC program.  2) Transfer of operating costs for Type Commander Headquarters Automated Information System (THAIS) from centrally managed program in Budget Activity Seven. THAIS automates 10 functional areas; readiness, employment, inspections, command index, ship maintenance financial, administration, personnel, logistics and aviation maintenance.	leadquarters 1,298 illy managed es 10 ions, command on, personnel,	
. Program Increases A. Other Program Growth in FY 1990 1) Increase is due to new requirements for Navy Tactical Interoperability Support Activity to perform joint	tical : 243	543

		-1,898		• :					96, 359	2,656						
-	300		-145	.97	-11	-322	-997	-318		(378)	317	1 09	(1,043) 1,031		(112)	111
nd Control, Communications	(NHBS) telecommunication ffices to NAVCOMPT, and ce, software development,		and Post Exercises and	Sealift Command. from replacement of aged	equipment.	requisitions.  3) operations and operational, equipment maintenance and	th due to the DoD Inspector strative oversight also includes annualization	ces Radio and Television								
certification testing on Navy Command Control, Communications	and intelligence systems.  Navy Headquarters Budgeting System (NHBS) telecommunication connection from Budget submitting offices to NAVCOMPT, and requirements for hardware maintenance, software development, and supplies.	R Decreases	Contra	Contingency Operations at Military Sealift Command. Maintenance cost savings resulting from replacement	equipment including the displaymenters and Actor machines. Reduction from recycling of office equipment.	Enhanced scrutiny of office supply requisitions. Reduction in Command and Control (C3) operations and operational support, such as supplies/materials, equipment maintenance and	resecommunication support. Reduction of 17 Civilian end strength due to the DoD Inspector General initiative to reduce administrative oversight (Van Der Schaff Study). Reduction also includes annualization of 13 and strength reduced in FY 1989.	Decrease in the amount of Armed Forces equipment purchased.	O President's Budget Estimate	g Adjustments:	0001 13	Wage Board Foreign National Direct	991 Direct Pay Raise Classified	Wage Board	ck Fund	Non-Fuel
	<b>8</b>	Program	A. C.	7)	9	· <del>-</del> • • • • • • • • • • • • • • • • • • •	(9	L	. FY 1990	Pricing	A. Allind 1)	<b>3</b> 8	_		c. stoc	
		S.					•		9	L.						

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FY 1991 President's Budget Pequest

																		•				-							
FY 1991 CIV E/S	140	8	44	Ś	979	0	7	274	22	11	133	21	91		0	0	0	0	0	0	0	17	ŀ	1,407					
4/3	9	5,240	2,674	817	27,287	3,543	4,680	18,929	1,892	3000	7,714	5,058	5,427		550	532	0	297	165	2,422	1,100	1,693		97,046	FY 1991		10, 609 3, 496 7, 113	1,407 1,377 15	?
1990 CIV E/S	-6	92	<b>4</b> 5	'n	989	0	7	279	22	12	133	21	16		0	0	0	0	0	0	င္	11	;	1,431	, <u>Fa.</u>	•1	•		
	6, 429	5,052	2,661	968	26,842	3,477	4,702	18,721	1,839	991	7,495	4,848	5, 154		544	516	0	298	163	2,387	1,698	1,646		96,359	0661 As		10, 758 3, 533 7, 225	1, 431 1, 401 15	3
( 1989 CIV E/S	146	95	45	ഹ	645	0	~	282	.22	13	121	27	16		•	0	0	0	0	0	0	1.1	!	1,436		••		· · · · · · · · · · · · · · · · · · ·	
S	6, 639	4,846	2,703	702	25,290	3,542	3, 168	19,554	1,756	1,085	6,846	4,822	4,641		536	529	0	298	160	2,616	1,767	1,575	1 1 1	93,075	FY 1989		10,937 3,590 7,347	1,436 1,406 15	1
X 1988 CIV E/S	141	66	41	'n	643	-	7	275	22	15	109	52	16		0	<b>o</b>	0	0	0	0	0	16	ł	1,416	•				
Z. S	7,339	9,034	2,283	1,284	31,762	4,081	3,120	20,571	1,924	1,276	7,778	4,960	4,767		521	200	•	453	.156	2,502	ncy 1,525	ity 1,405		107, 205	FY 1988		10,966 3,504 7,462	1,416	<b>.</b>
III. Performance Criteria.	بع	CINCPACFLT	CINCUSNAVEUR	COMUSNAVCENT	TYPE COMMANDERS	Submarine Sqdn Staffs	Surface Sqdn Staffs	Other Fleet Staffs/Units	COMINEWARCO	COMFAIRMED	Naval Imaging Command	Navy Broadcasting Service	Navy Tact Interoperability	Support Activity	COMOPTEVFOR	COMM Second Fleet	COMM Third Fleet	COMM Sixth Fleet	COMM Seventh Fleet	AFRTS	Military Sealift Cmd Contingency	Navy Internal Relations Activity	•	TOTAL	IV. Personnel Sumary.	End Strength E/S	A. Military Officer Enlisted	B. Civilian USDH FNDH	KNALI

Activity Group: Rudget Activity:

Cruise Missile 2 - General Purpose Forces

### Description of Operations Financed

The mission of the Cruise Missiles Project (CMP) is to develop, test, evaluate, acquire and support the May Cruise Missiles and to maximize subsystem, component and software commonality to derive maximum benefit from the management of the several Cruise Missile programs. Through this program, CMP provides for overall management and engineering support of the Sea Launched Cruise Missile.

Cruise Missile Support funds the Operations and Engineering effort required to maintain the TOMAHANK Weapon System. This includes:

## A. Operational Test Launch (OTL) Flight Test

operational readiness and aging effects of the deployed weapons system. Tests will also be used to support fleet training, tactics development and to provide diagnostic information which can be used to enhance OTL flight tests are the primary means for evaluating production missiles to determine and monitor eapon system effectiveness.

The OTL scenario encompasses returning a fleet "All-Up-Round" (AUR) to the TOMAHANK Weapons Facility (TWF) for pre-flight preparation including installation of a Range Safety System or a Recovery Exercise Module. Detailed test planning in concert with appropriate fleet activities and the flight test is conducted using a realistic operational scenario.

operational inventory. Program costs include range support, flight test instrumentation, target support, tate reduction, and labor performed during pre-flight preparation and post-flight refurbishment. Following an OTL flight test, the missile is recovered, refurbished at the TWF and returned to the

The OTL program is the only method for accurately monitoring flight reliability of production rounds to onsure product integrity.

#### B. Depot Maintenance

accomplished during the recertification process. In addition missiles are refurbished after an UTL or TOMAHAWK missiles will be returned to the TOMAHAWK Weapons Facilities (TWF) for examination and recertification (periodic maintenance). Any retrofits and/or modifications of the missile will be reworked if damaged during fleet handling at the TWF.

# . Nuclear Safety and Certification and SEARA Efforts

TOMAHAWK Weapon Systems are covered. The Stockpile Evaluation and Reliability Assessment (SEARA) program Both Surface Ship and Submarin changes to the baseline (IOC) systems, and for follow-on platforms and updates to the Independent Softwar The Nuclear Safety and Certification effort includes Nuclear Safety Analysis (NSA) update to support is joint DOE-Navy assessment of the Sea Launched Navy Nuclear Warheads (W80-0). The program includes Quality Assurance Stockpile Tests, Stockpile Laboratory Tests and Joint Integrated Laboratory Tests. Nuclear Safety Analysis (ISNSA) for changes to the software and firmware.

#### D. Maintenance/Technical Support

Software upkeep is required separately for the anti-ship and land-attach training, technical manual updates, in-service engineering, and TOTEM support. The TOMOHAWK Test Missale (TOTEM) is an unboosted, launchable and recoverable encapsulated test missile for use in testing TOWAHAWK cruise missile variants. Platforms maintenance requirements include support of the Surface Ship Weapons Control Systems, the Armored Box Launchers, the Vertical Launch System, the Submarine Combat Control Systems MK 1 and Torpedo Tube Launchers. Logistics and technical support includes ILS management, Maintenance/Technical Support includes software maintenance, platform maintenance requirements, compatibility with the Submarine MK 1 Fire Control System and the Torpedo Tube Launcher. logistics and technical support.

### Mission Planning Centers (MPC's)

O&M,N costs associated with the MPC's are for software maintenance and upker The Mission Planning Centers develop and maintain the software programs which control independently the Land Attack Cruise Missiles. of the centers

# 11. Financial Summary (Dollars in Thousands).

#### A. Sub-Activity Group Breakout:

Agent support, software support activity and technical manual updates; and reduced funding due to Depot Maintenance Competitive Savings.

Nuclear Safety Analysis; reduced In Service Engineering

5.	5. FY 1990 President's Budget Request		115,888
•	<ul><li>6. Pricing Adjustments</li><li>a. Industrial Fund Rates</li><li>b. Other Pricing Adjustments</li></ul>	(3, 626) 891 2, 735	3, 626
	7. Program Increases a. Other Program Growth in FY 1991 1) Increase in depot and capsule launching system maintenance, due to 72 additional recertifications installations of MODS kits to achieve current missile configuration; increase in platform maintenance due to 16 additional TOMANAWK Platforms in FY 1991 and phased increase in software/hardware maintenance support due to Theater Mission Planning Center upgrades in the Digital	14,487	14, 487
<b>&amp;</b>	n Tea	m. -2,051	-2,05 <u>i</u>

131,950

9. FY 1991 President's Budget Request

III. Performance Criteria

	FY-1988	FY 1989	FY 1990	FY 1991
Platform Maintenance	18	103	. 611	135
Operational Test Launch Flight Test	16	17	16	. 16
Missile Refurbishments	10	7	1	7
Recertifications	105	151	156	228
Theater Mission Planning Centers	m	<b>m</b>	m	m

7. Personnel Sumary.

Non Applicable

#### Department of the Navy Operation & Maintenance, Navy

Activity Group: Maintenance of Real Property Budget Activity: II - General Purposes Forces

### I. Description of Operations Financed.

and utility systems at major fleet bases and aviation activities to permit assigned forces and tenants to This program provides maintenance, repair and minor construction of all buildings, structures, grounds perform their missions.

The major elements of this program are:

- Facilities Maintenance finances scheduled, day-to-day recurring maintenance, and emergency service work needed to preserve facilities.
- Major Repairs provides major repairs necessary to bring existing facilities into adequate condition to support assigned missions.
- Minor Construction finances the erection, installation or assembly of real property facilities; the addition, extension alteration, conversion or replacement of existing real property facilities; that relocation of real property facilities; and the installation of equipment which becomes part of a o

# II. Financial Summary (Dollars in Thousands).

#### A. Sub-Activity Group Breakout:

			FT 1989			
		Amended			FT 1990	FY 1991
	FY 1988 Actual	Pres. Budget	Appro- priation	Current Estimate	Bodget Request	Budget Regrest
Parilitiae Maintenance	286, 458	763.957	259, 921	268.102	253.427	267,613
Major Repair Projects	153, 925	85, 336	85,336	93,379	70,764	71,549
Minor Construction	49, 435	28,861	28,694	30,174	24,268	22,846
Total Activity Group	489,818	378, 154	373,951	391,655	348,459	362, 008

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_, _;	Reconciliation of Increases and Decreases:		Amount
	1. FY 1989 Current Estimate	391, 655	
	Dricies address and the property of the proper		26, 302
	. A Annualization of FY 1989 Direct Pay Raises	(1,177)	•
	1) Classified	69	
	2) Mage Board	731	
	3) Foreign National Direct Hires	377	
	B. FT 1990 Direct Pay Raises	(1, 690)	
	1) Classified	87	
	Wage Board	162	
	3) Foreign National Direct Hires	1,441	
	C. Stock Fund	(7)	
	I) Fuel	17-	
	2) Non-Fuel	2	
	D. Industrial Fund Rates	(3, 955)	
	E. Foreign National Indirect Hire	(1,451)	
	F. Foreign Currency Adjustments	(10, 353)	
	G. Other Pricing Adjustments	(7, 604)	
	3. Functional Program Transfer		260
	1) Intra-Appropriation		
	a) Operating and administrative support for the MK-48	•	
	Advanced Capability (ADCAP) function at Charleston	(43)	
		i les	
	b) Facility Maintenance support for Boone Clinic Little	(181)	
	Creek, va from on o.		
	4. Program Increases	•	1,829
	A. Other Increases in FY 1990		
	civilian personnel end strength.	(1,829)	. (

gram D One-T	Program Decreases A One-Time FY 1989 Decreases	(-294)	-M, 37
Office Line 1) FY 1 Other De	Time Fi 1707 Decreases FY 1989 Foreign National indirect separation liability.	-294 -71,293)	
Savi	Savings associated with decisions to convert to contractor performance, or in-house efficiencies resulting from CA studies		•
unde	nder OMB Circuiar A-10. eferral of recurring maintenance and repair efforts and	701-	
redu	eductions in materials, supplies, and equipment support for lanned facility maintenance and repair.	-35,933	
Defe	eferral of Major Repair Projects to reflect available program	-32,791	
End thr tho	nd strength and funding adjustments based on savings achieved hrough implementation of Most Efficient Organization (MEO) for hose functions which remain in-house as a result of CA competition.	on215	
Def ref	eferral of Minor Construction and Physical Security Projects to eflect available program resources.	-1,592	
Pre	FY 1990 President's Budget Request		348, 459
Adj	Pricing Adjustments	(321,11	13, 504
Cla	Classified	33	٠
Mag	age Board	411	
Fo	oreign National Direct Hires	. 731	
1991	91 Direct Pay Raises	(2,117)	
Z Z	age Board	239	
For	oreign National Direct Hires	1,739	
Stock F	Fund	(501)	
Fue	uel (on-Fuel	195	
ustr	Industrialization Fund Rates	(2, 392)	
Foreign	gn National Indirect Hire	(1,078).	
eign	Foreign Currency Adjustments	(459)	
Other P	Pricing Adjustments	(any sc)	
	•		

2 280		-2,144		•	362, 008		
	(2,238) 2,238 (151) 151	(-300) -300 (-1,844)	-215	-229 -239 -674		FY 1991	1,257,426
	1991.	bility.	from CA (orts and support	Organization s a result ity Projects		FY 1990	1,061,064
	s on the Gulf ng. rk day in FY I	paration liab	ies resulting from CA and repair efforts and and equipment support its based on savings	ost Efficient in in-house a hysical Secur es.		Fr 1989	899, 263 136, 974
	ocreases Naval Stations egic Homeportir n Personnel Woo	al indirect sep h decisions to	se efficiencie: ular A-76. maintenance am s, supplies, am aintenance. nq adjustments	implementation of Most Efficient C functions which remain in-house as on. or Construction and Physical Security able program resources.	pest	FT 1988	745, 189 135, 979
	Increases alization of FY 1990 Increases Continued expansion of Naval Stations on the Gulf Coast related to Strategic Homeporting. Time FY 1991 Growth One additional Civilian Personnel work day in FY 1991		performance, or in-house efficiencies resulting from CA studies under OMB Circular A-76. Deferral of recurring maintenance and repair efforts and reductions in materials, supplies, and equipment support for planned facility maintenance.	achieved through implementation of Most Efficient Organization (MEO) for those functions which remain in-house as a result of CA competition.  Deferral of Minor Construction and Physical Security Projects to reflect available program resources.  Realignment of 21 End Strength to Base Operations.	President's Budget Request	e Criteria.	Maintenance of Real Property Racklog, Maintenance/Repair (\$000) Total Building (KSF)
	8. Program II A. Annua I) C C B. One-T I) O	9. Program A. One 11 B. Othe		₹ <b>₹</b>	10. FY 1991	III. Performance	Maintenance of Real Racklog, Maintenance Total Building (KSF)

Activity Group: Maintenance of Real Property (Cout'd)

IV. Personnel Sumary:	1988	1387	F1 1990	EI 1331
		•		
End Strength (E/S) A. Military	477	538	540	547
Officer Enlisted	30	38 500	38	38
B. Civilian	2,305	2, 171	1,964	1,893
GSDH FNDH FNTH	1,138 671 496	1,037 639 495	830 639 495	759 <b>6</b> 39 <b>4</b> 95

Activity Group: Rase Operations
Budget Activity: II - General Purposes Forces

### 1. Description of Operations Financed.

This program provides the base support services and material required at major fleet bases and air stations to permit assigned forces and tenants to perform their missions.

The major elements of this program are:

- o Utility Operations Includes operating expenses for purchased electricity, electricity generating plants, purchased steam and hot water, heat plants, utility distribution systems, waste systems, air conditioning and refrigeration plants.
- on Personnel Operations Support required for personnel related functions include expenses for:
- Bachelor Housing Operations and Furnishings provides support for the operation of barracks and the purchase and maintenance of personnel support equipment related to this housing.
- health care costs for Health Care Facilities not under the financial control of the Navy Medical Command. - Other Personnel Support - provides for mess halls, sales activities, laundry and dry cleaning facilities. Also funds Station Hospitals, Medical and Dental Clinics, which include direct and indirect Also provides support for Human Goals programs which focus on improving organizational and individual effectiveness and the administrative support of the Alcohol and Drug programs.
- Morale, Welfare and Recreation provides authorized appropriated fund support for shore based recreation activities.
- base Operations Mission Support for those Base Operations functions which are required in direct support of the mission of the base. For example, Fleet Training Support, Logistics Support, etc. Expenses are included for the following functions:

- procurement, receipt, storage and issue of bulk liquid fuel, including operating aircraft fuel servicing Retail Supply Operations - In addition to standard supply functions, this item includes the facilities. Additionally, waterfront operations such as handling incoming and outgoing cargo and loading/unloading live ammunition onto and from combatant vessels are included.
- Maintenance of Installation Equipment provides for maintenance of major shore based equipment service and miscellaneous craft, construction equipment (non-deployable), weapons, electronics, electronic engineering, and fleet moorings. including:
- Other Base Services provides for the maintenance and operation of vehicles/other transportation equipment, port services (includes navigational assistance to ships, operation of service craft, degaussing operations, and oil spillage cleanup).
- Base Operations Ownership Support required at shore bases regardless of type of mission being Expenses are included for the following performed which must be sustained to have a functioning base.
- property, and fire protection and firefighting for Naval activities and their tenants. The sub-activity of liazardous wastes. Other Engineering Support - Public Works Department Administration, engineering services, custodial services, refuse/garbage collection and disposal, snow removal, rental and leasing of real group Hazardous Waste Material Handling was consolidated into this sub-activity group and includes personnel, supplies and training associated with the identification and dispo-
- and maintaining military personnel records. The Navy Claims function was transferred from BA Administration - provides support related to financial/resource management, civilian manpourr management,
- Automated Data Processing provides analysis programming, equipment rental, operations and maintenance, contractual services and supplies.
- Audiovisual provides supplies and services required for audiovisual support.
- Physical Security provides shore base physical security

11. Financial Summary (Dollars in Thousands).

#### A. Sub-Activity Group Breakout:

			FT 1989			
		Amended			FT 1990	1991
	FY 1988 Actual	Pres. Budget	Appro- priation	Current	Budget	Budget
Base Communications Utility Operations Fersonnel Operations Base Operations, Mission Ownership Operations	58, 601 197, 112 127, 073 405, 723 552, 501	37, 274 225, 627 127, 800 442, 220 522, 669	36,888 222,670 126,968 424,168 508,669	38, 830 215, 653 119, 988 443, 532 590, 399	45, 738 228, 206 129, 326 482, 092 627, 592	48,001 239,332 136,232 497,251 643,535
Total Activity Group	 1,341,016	L, 354, 990	1, 31.7, 503	1001	1	•

# B. Reconciliation of Increases and Decreases:

1989 Direct Pay Raises (6,731) 3,659 1,738 1,738 1,334 aises (12,213) 4,818 497 Direct (2,898 -3,908) -3,950 42 (8,706) s (6,490) ments (46,736)	•	1. FY 1989 Current Estimate	1,408,402
f FY 1989 Direct Pay Raises  ional Direct  ional Direct  Rates  Rates  djustments  djustments  (6)			97,042
		ry 1080 Direct Pay Raises	1)
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			74)

Transfer
Program
Functional
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a.	Transfers In	(16, 521)
;		14.674
<u></u>	Intra-Appropriation  a) Transfer various Authorized Accounting Activity  (AAA) functions:	(2,520)
	(1) AAA function from Budget Activity 8.	137 2,383
	b) Transfer of hazardous waste disposal resources from Budget Activity 7, Field Operations, to individual activities to encourage savings by	
	making generators directly responsible for disposal.	(11,443)
	<ul> <li>c) Operating and administrative support for MK-48 Advanced Capability (ADCAP) function at Charleston from Budget Activity 7.</li> </ul>	on (236)
	<ul> <li>d) Personal Excellence Program from Budget Activity 9.</li> </ul>	(53)
	•—	(78)
	<ul> <li>f) Transfer of Defense Data Network (DDN) resources from budget Activity 3, Leased Communications to individual users to encourage savings by</li> </ul>	
	making users directly responsible for paying for their own DDN usage.	(309)
73	Inter-Appropriation  a) Transfer resources for several MWR activities  located at the remote DOD Housing Facility,	1,847
	Novato, CA from the Family Housing Appropriation as recommended by the Naval Audit Service.	n (1,847)
= ف		(-1,840) -1,655
•	a) Supply Reimbursable to Budget Activity 7 Supply Operations.	(-1, 129)

	19, 638	-26,815
(-152) (-264) (-110) -185	(16,060) 16,060 (3,578) 838 1,558	(-8, 469) -5, 288 -3, 181 (-18, 346)
b) Naval Station Treasure Island Islemart to Budget Activity 7 Supply Operations. c) NAS Alameda Payroll to Budget Activity 7. d) Funds to rent commercially leased space realigned to Budget Activity 9, Base Operations Support, for direct payment to the General Services Administration Federal Building Fund. 2) Inter-Appropriation a) Transfer to the O&M, Army appropriation to support the Refense Systems Management College, which will oversee the DOD education and training program for the acquisition workforce.	4. Program Increases a. Annualization of FY 1989 Increases 1) Increase for Gulf Coast Strategic Homeporting. Includes utilities, engineering services, port services, transportation, bachelor housing and personnel services, and MWR. b. Other Program Growth in FY 1990 1) Increase to fully fund base operations for ROTHR Detachment in Amchitka. 2) Installation and conversion to the consolidated area telephone system (CATS). 3) Telecommunication improvements, telex rental, and services, and two-way radio rentals and maintenance.	5. Program Decreases a. One-Time FY 1989 Costs 1) Reduction for payment of backlogged claims. 2) FY 1989 Foreign National Indirect Hire separation liability and retroactive pay. b. Other Program Decreases in FY 1990 1) Reduction in Base Operations programs at all bases, including administrative/ADP services, personnel support, MWR, logistic support to ships and aircraft squadrons, physical security ships and aircraft squadrons, physical security activities, engineering services, custodial

						1,512,948	56,947	:					_*.				•			33,706									
il -		-17,259		0161		 	 	(5, 940)	836	3, 136	7,539	753	8,165	(2, 901)	1,671	(6,677)	(6, 700)	(502)	(11,770)		(30, 572)	30.572	(1,754)	1,754	(1,380)	-	1,380		
	and refuse collection and disposal services, deferral of service craft overhauls and reduced	transportation support.	2) Savings associated with decisions to convert contractor performance or in-house efficiencies	resulting from CA studies under OMB circular	<ol> <li>Decrease reflects reduction in energy utilization through energy conservation</li> </ol>	6. FY 1990 President's Budget Request	7. Pricing Adjustments	a. Annualization of FY 1990 Direct Pay Raises	2) Waye Board	3) Foreign Nat	D. Frigg Direct Pay Raises	2) Wage Board	3) Foreign Nat'l Direct	c. Stock Fund	1) ruei	d. Industrial Fund Rates	_		g. Other Pricing Adjustments	8. Program Increases	n of	<ol> <li>Increase for strategic homeporting on the Gulf Coast</li> </ol>	b. One-Time FY 1991 Costs	<ol> <li>One additional CIVPERS work day.</li> </ol>	þe	<ol> <li>Increase Base Operations support for new ROTHR sites commencing operations in FY 1991 including</li> </ol>	Chesapeake VA and Det 3 Guam/Tinio	1-2-131	

6

FY 1991 Presidents Budget Request

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			-,	sase operations	8
III. Performance Criteria.	FY 1988	FY 1989	FY 1990	FY 1991	
Operations of Utilities					
Total Energy Consumed (MBTU's)	23, 591, 450	23, 763, 668	24,833,033	25, 453, 858	
Total Non-Energy Consumed (000 Gal)	19,734,430	20, 282, 424	21,440,344	22, 122, 132	
Rase Communications					
Number of Instruments	101, 105	100,602	118,514	113, 278	
Number of Mainlines	67,544	68, 184	80.610	81,039	
Daily Average Msg Traffic	24,079	24.642	25,698	26,006	
	•	-			
Personnel Operations					
Bachelor Housing (\$000)	29,200	30,241	33,034	33, 455	
No. of Officer Quarters	10, 209	10,329	10,746	10,874	
No. of Enlisted Quarters	91,510	85,824	87, 473	87,613	
Other Personnel Support (\$000)	63,061	71,529	77,245	80,586	
S	954,667	957,551	960,961	968,036	
(Military, E/S)	500,024	501,686	504,524	510, 429	
(Civ/Dep, E/S)	454,643	455,865	456, 437	457, 607	
Morale, Welfare & Recreation (\$000)	34,812	18,218	19,047	22, 191	
Population Served, Total	1,085,380	1,141,206	1, 166, 743	1,217,346	
(Military, E/S)	442,394	474,008	489, 492	519,237	
(Civ/Dep, E/E)	642,986	667, 198	677, 251	698, 109	
base Operations, Mission (4000)	142 285	146. 305	123 621	160 045	
ried	3,304	410,000	1,01,01	00° 00° 00° 00° 00° 00° 00° 00° 00° 00°	
Dooint (000)	200 <b>4</b>	345	10010 N A57	DFC 4	
Tables (000)	6.459	6,662	6,762	1/4/5	
Maintenance of Installation Emin (5000)	66,212	72,557	85, 960	86,622	
Serv	197,232	224,580	238, 461	250,584	
No. of Motor Vehicles, Total	12,897	12,482	12,403	12,428	
(Owned)	9,561	9,042	8,964	8,989	
(Leased)	3, 336	3,440	3,439	3,439	
Ownership Operations	!				
Other Engineering Support (\$000)	209,610	220,548	239, 453	246,289	
Administration (\$000)	269,466	283, 379	291,449	294,162	
Number of Bases, Total	91	. 91	96	96	
(CONUS)	33	39	44	44	
(Overseas)	52	<b>2</b> 5	52	. 25	
	1-2-133				

111	III. Performance Criteria	(Cant 'd)	FT 1988	FT 1989	FT 1990	FY 1991
er	Navy Claims:					
	Personnel Claims		31,929	47,935	39,882	39, 687
	Tort Claims		3,102	4,462	3, 782	3, 782
	Admiralty Claims		31	114	82	85
	Other Miscellaneous Claims	Claims	. 14	22	18	18
				<u></u>		
IV.			FY 1988	FY 1989	FT 1990	FT 1991
	Military		28,410	29,075	29,214	29,246
	Officer Entisted		2,071	2,149 26,926	2,225 26,989	2,227 27,019
<b>«</b>			21,937	21, 465	21,801	21,274
	•		14,654 - 4,523 2,760	14, 646 3, 771 3,048	15,027 3,726 3,048	14,521 3,705 3,048
	FAIR					

Operation & Maintenance, Navy Department of the Navy

Activity Group: Budget Activity:

2 - General Purpose Forces Foreign Currency

### Description of Operations Financed

include the cost of foreign currency gains or losses against the U.S. dollar. The use of this fund has been instrumental in permitting an orderly execution of the budgeted program and in preventing turbulence caused by unbudgeted increases in value of foreign currencies. Operations financed This program provides resources for foreign currency exchange rate fluctuations.

#### Financial Summary (Dollars in Thousands) . II.

FY 1991	Budget Request	10			
1000	Budget Request	- <u> </u> -	, and the second	68.000	•
	Current Estimate	000 00	000	•	
FY 1989	Appro- priation	0   6	<b>ə</b>		÷.
	Amended Budget Request	0	0	d Decreases:	
p Breakout.	FY 1988 Actual	133,800	133,800	Increases an	t Estimate
A. Sub-Activity Group Breakout.		Foreign Currency	Total Activity Group	B. Reconciliation of Increases and Decreases:	1. FY 1989 Current Estimate

Performance Criteria

III.

Non Applicable

Personnel Sumary ĮV.

Non Applicable

STARBERT OF RECURBERRIS BY ACTIVITY GROLP

		FY 1988			FY 1989	50		FY 1990	Ó		14 1991		Brok.
	Person	Personnel E/S	N TOO	Person	Personnel E/S	00H, N	Person	Personnel E/S	N. HOO	Personnel 5/8	1 5/8	2 VB0	ā
	쾰	Ü	Punding	코	Ď	Punding	#	Civ	Punding	귶	Č	Punding	Per
HUGET ACTIVITY 3: INTELLERIES & COMMICATIONS	WEITIGH.	400 9 SD	ANICATIONS										
					•								
Security Program	277	4,124	382,677	9,037	4,573	409, 366	19076	4,739	£76,256	9,071	4,807	500, 488	1-3-9
Naval Communications	7,144	1,621	381,674	7,536	1,707	373,296	7,455	1,719	805 7298	7,376	1,690	426,775	- - -
Leased Commications	•	1	156,950	•	1	178,027		•	144,146	ı	٠	202, 194	1-3-13
Worldaide Hilitary	;	ļ			•								•
Commend & Control	7	117	20,500	<b>E</b>	77	20, 633	\$	125	22,149	<b>96</b>	23	24,26/	1-3-22
Myst. Beadquarters	18	162	7,003	F	163	7, 436	76	165	7,299	<b>%</b>	165	7,523	1-3-29
Other Commications	6,649	1,542	195, 221	7,021	1,418	167, 200	6,971	1,429	188, 914	6,902	1, 40	192,791	1.3-32
Specialized Support	3,019	2,737	282, 955	3,288	2,638	296, 208	3,113	2,754	326,518	3,631	2,758	351,742	
Environmental													:
Prediction Support	1, 791	1,054	152, 331	1,933	1,018	166, 276	1,852	1,150	190, 463	1,841	1,171	214,177	1-3-55
Mayal Chervatory	7	122	10,249	Ħ	131	10, 791	ឡ	131	11,528	8	131	11,913	1-3-80
Maintenance of													
Real Property	8	314	24,718	3	284	25, 686	28	365	27, 785	88	<b>5</b>	28,252	1-3-88
Base Operations	1,166	1,247	95,657	1,221	1,205	93, 455	1, 184	1,208	96, 722	1,162	1,209	97,394	1-3-93
TOTAL BA 3	18,605	8, 682	1,047,296	19,861	8,918	1,078,670	19,629	5,212	1, 165, 282	19,538	9,255	1,279,005	

Department of the Navy Operation & Maintenance, Navy

Rudgot Activity: III - Intelligence and Communications

## 1. Description of Operations Financed.

This budget activity provides support to the Strategic Forces and General Purpose Forces program in the area of cryptology, general defense intelligence, foreign counterintelligence, investigative service, communications, and other specialized support such as Navy oceanographic program and base operations. All available audit savings have been incorporated into the following budget estimates.

## II. Financial Summary (Dollars in Thousands).

#### A. Sub-Activity Group Breakout.

			FY 1989			
	FY 1988 Actual	Amended Pres. Budget	Appro- priation	Current Estimate	FY 1990 Budget Request	FY 1991 Budget Request
Security Program Naval Communications Specialized Support	382, 667 381, 674 282, 955	405, 858 387, 343 294, 726	403, 948 376, 627 285, 138	409, 366 373, 296 296, 208	476, 256 362, 508 326, 518	500, 488 426, 775 351, 742
Total, Budget Activity	1,047,296	1,087,927	1,065,713	1,078,870	1,165,282	1,279,005

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(-1,282) (-2,831) (-1,000)

(-4,055) (-1,665) (-2,460)

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Budget Activity: III - Intelligence and Communications (continued)

Congressional Adjustments

FY 1989 President's Budget Request

Inventory Management

**LDP Systems** 

Morale, Welfare, Recreation Support

sset Capitalization

ADP Systems Maintenance

Command, Control, Communications

Classified Programs

Ship Operations

Fleet Satellite Communications

Fuel Savings A-76 Savings

Outfitting<sup>-</sup>

FY 1989 Appropriation ო

Pricing Adjustments

Incremental 2.1% FY 1989 Pay Raise

(1) Classified (2) Wage Board

Other ъ.

6,600 \$1,065,713

(-1,500) (-2,689) (-2,000) (-782)

(-302)-1,648)

(4,669) 4,471 198

(1,936)

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(24,536)

000 1,938 639 , 235

4,764

Budget Activity: III - Intelligence and Communications (continued)

Reconciliation of Increases and Decreases (continued)

Other Increases

Program Increases

Security Program

Leased Communications

Worldwide Military Command & Control System

Management Headquarters

Other Communications

Environmental/Prediction Support

Naval Observatory

Base Operations

Maintenance of Real Property

Other Decreases

Program Decreases ď

Security Program

Worldwide Military Command & Control System

Environmental/Prediction Support Other Communications

Maintenance of Real Property

Base Operations

FY 1989 Current Estimate

Pricing Adjustments

Annualization of FY 1989 Direct Pay Raises Ä

Classified

Wage Board 32

Foreign National Direct

1,720 906 -17,984

(-17,984)-1,593

-2,845

-8,742 -3,088

-1,356 -360

\$1,078,870

44,248

(3,092) 2,613

382 97

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# B. Reconciliation of Increases and Decreases (continued)

(1) Classified (2) Wage Board (3) Foreign National Direct (3) Foreign National Direct (1) Fuel (1) Fuel (2) Non-Fuel (2) Non-Fuel (3) Foreign Currency Adjustments (4) Foreign Currency Adjustments (5) Cother Pricing Adjustments (15, 228)		. FY 1990 Direct Pay Raise	(5,144)
ָרָ בְּרָ בָּרָ בְּרָ בָּרָ בְּרָ בָּרָ בְּרָ בִּרְ בָּרָ בִּרְ בִּיִּ בְּרָ בִּיִּ בְּרָ בִּיִּ בְּרָ בִּיִּ		(1) Classified	4,273
		(2) Wage Board	270
S L S		(3) Foreign National Direct	601
s pure services and services are services ar	٠	. Stock Fund	(-1,227)
ent s		(1) Fuel	-926
s au a		(2) Non-Fuel	-301
e transfer of the transfer of		. Industrial Fund Rates	(13, 419)
ant s	141	. FN Indirect	(549)
		. Foreign Currency Adjustments	(8,043)
9. Functional Program Transfers	9	. Other Pricing Adjustments	(15, 228)
J. Full-Living Flogram Francisco	0	mortices Dronner Greenford	
	;	micromer requestion	

TERMINICAL TIL	(1) Intra-Appropriation	(2) Inter-Appropriation	Transfers Out	(1) Intra-Appropriation	(2) Inter-Appropriation	
•			œ.			

10. Program Increases

1989 Increases		ediction Support	<b>~</b>	ts	(1) Worldwide Military Command & Control System	Environmental/Prediction Support	
A. Annualization of FY 1989 Increases	(1) Security Program	(2) Environmental/Prediction Support	(3) Naval Observatory	B. One-Time FY 1990 Costs	(1) Worldwide Milita	(2) Environmental/Pr	(3) Naval Observatory

(8, 424) 5, 007 3, 289 128 (1, 918) 38 1, 638

101, 603

(17,385) 16,885 500 (-19,011) -16,543 -2,468

# Reconciliation of Increases and Decreases (continued)

Other Program Growth in FY 1990		41,403
(1) Security Program		7,439
(2) Leased Communications	•	2,150
(4) Other Communications		12,691
(5) Environmental/Prediction Support		)
(6) Naval Observatory	-	1,970
(7) Maintenance of Real Property		1,039
(8) Base Operations	-	1

#### 11. Program Decreases

-57,813

(-3,575) -1,035 -195 -1,525 -20,238 -29,556 -1,346

## 12. FY 1990 President's Budget Estimate

\$1,165,282

-7,655

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(continued)	
1 Communications	
ivity: III - Intelligence and Communications (continued)	
et Activity: III -	
Budg	

(continued)
Decreases
es and
Increas
of
Reconciliation
œ.

13.	Pricing Adjustments		37, /18
	A. Annualization of FY 1990 Direct Pay Raises	(1,923)	
	(2) Wage Board	229	
	(3) Foreign National Direct	101	
	B. FY 1991 Direct May Maise	6,730	
	(2) Wage Board	450	
		944 960 900 900 900 900 900 900 900 900 900	
	C. Stock Fund	335	
	(1) Fuel (2) Non-Fuel	657	•
	D. Industrial Fund Rates	(11,388)	
	E. FN Indirect	(909)	
	F. Other Pricing Adjustments	(14, 360)	
14.	Functional Program Transfers		001
	A. Transfers In (1) Inter-Appropriation	(100) 100	
	Drooram Torbacos		107, /31
	A. Annualization of FY 1990 Increases	(10,849)	
.'		414	
( · · · · ·		203	
	<ul><li>(4) Other Communications</li><li>(5) Environmental/Prediction Support</li></ul>	7,020	
	-Time Secui	26	
	<pre>(2) Worldwide Military Command &amp; Control System (3) Environmental/Prediction Support</pre>	279	

100

# B. Reconciliation of Increases and Decreases (continued)

(96, 556) 14, 229 14, 229 53, 519 3, 202 13, 398 11, 816 117 31 219	-31,	(-264) -64 -200 (-1,986) -39 -1,200 -4,674 -1,100 -1,980 -1,980 -1,980 -1,980 -1,980 -1,980 -1,980
C. Other Program Growth in FY 1991 (1) Security Program (2) Leased Communications (3) Worldwide Military Command & Control System (4) Management Headquarters (5) Other Communications (6) Environmental/Prediction Support (7) Naval Observatory (8) Maintenance of Real Property (9) Base Operations	16. Program Decreases	A. Annualization of FY 1990 Decreases (1) Security Program (2) Leased Communications B. One-Time FY 1990 Costs (1) Worldwide Military Command & Control System (2) Environmental/Prediction Support (3) Naval Observatory C. Other Program Decreases in FY 1991 (1) Security Program (2) Leased Communications (3) Worldwide Military Command & Control System (4) Other Cormunications (5) Environmental/Prediction Support (6) Maintenance of Real Property (7) Base Operations

N. M.SC

\$1,279,005

17. FY 1991 President's Budget Estimate

Department of the Havy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: Security Program
Budget Activity: III - Intelligence & Communications

. Description of Operations Financed.

Details of this program are classified and provided separately.

## II. Financial Summary (Dollars in Thousands).

Sub-Activity Group Breakout.

			FY 1989			,
	FY 1988 Actual	Amended Pres. Budget	Appro- priation	Current Estimate	FY 1990 Budget Request	FY 1991 Budget Request
Security Program	382, 667	405,858	403,948	409,366	476, 256	500, 488
Total	382, 667	405,858	403,948	409,366	476,256	500, 488

## B. Reconciliation of Increases and Decreases.

1.	1. FY 1989 Current Estimate	\$409, 31 0
<b>%</b>	2. Pricing Adjustments	14,805
· • · · · · · · · · · · · · · · · · · ·	<ul> <li>A. Annualization of FY 1989 Direct Pay Raises</li> <li>(1) Classified</li> <li>(2) Wage Board</li> <li>(3) Foreign National Direct</li> </ul>	(1,832) 1,727 104

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# B. Reconciliation of Increases and Decreases (continued)

FY 1990 Direct Pay Paise (1) Classified	(2) Wage Board (3) Foreign National Direct	Stock Fund	(1) Fuel	(2) Non-Fuel	Industrial Fund Rates	FW Indirect Hire	Foreign Currency Adjustments	Other Pricing Adjustments
ည်		ပ			۵.	គោ	Ŀ	<u>ც</u>

#### 3. Functional Program Transfers

Transfers In

Intra-Appropriation	Inter-Appropriation
(1)	(2)

#### B. Transfers Out

#### (1) Inter-Appropriation Program Increases

## A. Annualization of FY 1989 Increases

#### 5. Program Decreases

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(100'01)	16, 061 500	(-679)	619-
	•		

06M, N 3-10

(continued)
Program
Security
Group:
Activity

#### Reconciliation of Increases and Decreases (continued) . E

#### 7. Pricing Adjustments

ä	Annualization	of O	Į.	FY 1990	Direct Pay	Рау	Kaises
	LA. 01. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	_					

#### Program Increases

## Annualization of FY 1990 Increases

#### Program Decreases

#### Annualization of FY 1990 Decreases ra;

### Other Program Decreases in FY 1991

#### FY 1991 President's Budget Request 10.

Actimity Group: Security Program (continued)

III. Performance Criteria.

separately.
provided
and
m are classified
are
program
this
Jo s
Details

Personnel Summary.	FY 1988	8 FY 1989	FY 1990	FY 1991
End Strength (E/S)	-		0 061	9,071
A Military	8,442		2002	
	913	1,034	1,046	1,052
UTICET	7,529		cTn'8	61010
o initian	4,124		4,739	4,807
IISDB	4,014	4,457	4,629	4, 697 56
FNDH	\$C		e e	54
FINE				

Department of the Navy
Operation and Maintenance, Mavy
Exhibit OP-5

Activity Group: Leased Communications
Budget Activity: III - Intelligence & Communications

## I. . Description of Operations Financed.

exceptions, all requirements are first reviewed by the Naval Telecommunications Command and then considered implementation of communications services and related systems and facilities. Approved telecommunications manner possible. The submitted requirements are analyzed, evaluated and necessary amplifying information ensure that requestor has properly stated the requirement; review Navy and DOD dana requirements are implemented in response to tasking from designated, validating authorities. With mince circuits, both leased and government-owned, are under periodic review with the requiring activities to for approval by the appropriate authority. Implementation is accomplished in the most cost-effective bases and coordinate to determine the availability of uncommitted resources; ascertain status of any planned facilities which will become available within the required operational time frame; prepare This activity group provides for the continuing financial support for leasing, acquisition and recommendations, as necessary, leading to validation and subsequent programming and budgeting. determine continued need.

program to individual users to encourage davings by making users directly responsible for paying for their own DBN usage. Funding provided for LEASAT through FY 1987 covers the cost of LEASAT service through In FY 1990, responsibility for funding of the Defense Data Network (DDN) is transferred out of this An FY 1991 increase provides for continued LEASAT service per contract option.

## II. Financial Summary (Dollars in Thousands)

#### A. Sub-Activity Group Breakout.

			оем, N 3-13			
202, 194	144,146	178,027	177,027	177,040	158,950	Total
202, 194	144,146	178,027	177,027	177,040	158,950	eased Communications
Budget Request	Budget Request	Current Estimate	Appro- priation	Amended Pres. Budget	FY 1988 Actual	
FY 1991.	FY 1990		FI 1909	Amended		

## B. Reconciliation of Increases and Decreases.

-	TV 1080 Current Retimate			\$178 A27
4	ri 1969 Current Bacimate			170'0170
2.	2. Pricing Adjustments	•		6,373
	A. Industrial Fund B. Other Pricing Adjustments		(5,749) (624)	
ω,	Functional Program Transfers			-17,102
	A. Transfers Out		(-17, 102)	
	(1) Intra-Appropriation (a) DDN Decentralization	e Tyr	-16,531 (-16,531)	
	(2) Inter-Appropriation (b) DBN Decentralization (		-57I (-57I)	
4	4. Prooram Increases		.'	7,439

(1)	(1) LDMX/NAVCOMPAPS funding supports leased maintenance of 1100 FEP Upgrades at NAVCAMSLANT, and 1100 CSRF hardware at NAVCAMSMED.	1,142
(2)	(2) TKS Replacement funding supports Technical Assistance, Maintenance Support Management, and Depot Level Repair of AN/FSC-178 (V) torn tape operations at NAVCOMSTAS Greece, Spain, Japan and Philippines.	

(7, 439)

Other Program Growth in FY 1990

614

# Reconciliation of Increases and Decreases (continued)

ပ

(SHP) fundin	leased maintenance of SHP sites. our sites	will make tercommunications guard while ships to maintain communications guard while	
trategic Ho	leased maint	ships to mai	in port.
(4) S	-	رب جي	-1-1

213

Secure Terminal Unit (STU-III) is designed to protect all classified and sensitive AUTOSEVOCOM, wideband and narrowband systems. communications within the government. The STU-III will replace all existing STU-II, (2)

357

Increased leased line support of WWANCS until WIS comes on line. <del>(</del>9)

Defense System Network (DSN) funding supports expansion of present system to accommodate increased number of users and CINCNAVEUR requirements. 3

355

4,600 DCS Long Haul Communications increase supports segments of the Defense Communications System (DCS) into the DCS Industrial Fund. responsibility/administration of certain pilot program to realign 8

Program Decreases

(1) Decrease for Gapfiller Communications One-Time FY 1989 Costs Ä

Satellite Support

06M, N 3-15

-30,591

(-1,035)

1,035

Reconciliation of Increases and Decreases (continued)

ن

(-29,556)	-5,100
n Other Program Decreases in FY 1990	(1) AUTOVON fund reduction is due to the transfer of 626 two-way CONUS AUTOVON circuits and 314 in-only circuits to DCTN during FY 1989; the resizing of existing locations on DCTN level 1, and the transfer of AUTOVON circuits in the to the DSN/OTS Network.
¤	

(-29,556)

Savings associated with Defense Data Network Decentralization.

(2)

(3) HF REGENCY NET program phase out.

(4) PROTO Connectivity program phase out.

Reduction to funding available for AUTOVOM, AUTODIN and Other Leased Services as a result of POM-90 decreases. (2)

Disconnection of leased communications circuits identified as underutilized/duplicative by the Inspector General. (9)

-3,300

-7,577

-52

(7) Decrease in scheduled payment for LEASAT contract services.

-22

3-16 OEM, N

# C. Reconciliation of Increases and Decreases (continued)

5. FY 19	6. FY 1990 President's Budget Request	•	\$144,146
7. Prici	Pricing Adjustments		5,415
В. О.	Industrial Fund Rates Other Pricing Adjustments	(4,815) (600)	
8. Progra	Program Increases		53,933
A. A	Annualization of FY 1990 Program Increases	(414)	
<i>,</i> υ	(1) Strategic Homeporting leased maintenance.	127	·
	(2) LDMX/NAVCOMPARS leased maintenance support of 70/45 Upgrades; 1100 FEP Upgrade and 1100 CSRF hardware.	271	
	(3) AN/FGC-178(V) torn tape operations at Greece, Spain, Japan, and Philippines.	91	
	Other Program Growth in FY 1991	(53, 519)	
<u> </u>	(1) AUTOWATION (RATS) - Army intends to extend the current tri-service Remote Automated Terminals (RATS) acquisition contract with Astronautics Corp. The new Follow-on RATS maintenance contract will commence 1 Oct 1988.	342	
J	(2) Other Leased Services - Leased maintenance of additional Strategic Homeporting (SHP) sites.	68	

# Reconciliation of Increases and Decreases (continued)

funding	rement	ı
(MYMS)	redui	, , ,
	S Mashington Aller of the saft and the	supports Navy WAWS-JU activation and
	-	

52, 193

300

LEASAT service from 4 orbital positions in covers cost of LEASAT service only through Funding provided in previous fiscal years FY 1990. Increase provides for continued FY 1991 per contract option. (4)

(-200)

-200

#### Program Decreases

Annualization of FY 1990 Decreases

(1) Disconnection of leased circuits identified as underutilized/duplicative by the IG.

Other Program Decreases in FY 1991 B.

(-1, 100)

-1,100

(1) Reduction to the DCS Long Haul Communications Pilot Program withdraws start-up funding applicable in FY 1990 only.

\$202,194

10. FY 1991 President's Budget Request

FY 1988 III. Ferformance Criteria

AUTOVON

FY 1989 77,798 64,526

71,960

75,007

FY 1991

FY 1990

Access to and use of the unsecure direct dialing service worldwide through the system of government-owned and leased automatic switching facilities of the DoD. Some of these facilities are used in support of the transmission media required by the Automatic Secure Voice Network (AUTOSEVOCOM)

3 - 18

Activity Group: Leased Communications (continued)

### III. Performance Criteria (continued)

-	17,679	
	17,098	
	19,205	
	18,385	
	2. AUTODIN	

Access to and use of the single, integrated, worldwide high speed, computer-controlled, general purpose secure communications network of the DoD.

OM 2,437 2,514 2,605
2, 437
31
<b>∌</b> l
AUTOSEVOCOM
m.

Access to and use of the singly approved worldwide secure voice assets of DoD.

services/agencies computur networks. The DDN provides subscribers with interactive query/response and bulk transfer capabilities, plus formal message service, electronic The DDN will support the AUTODIN community and Provides worldwide survivable and secure packet switching capability to mail and teleconferencing services. DEFENSE DATA NETWORK

follow-on system.

A dedicated voice alert network in support of the Commander in Chief Pacific (CINCPAC). The facilities are available for use by the component commands as common user

1,756

CINCPAC VOICE ALERT NET

voice circuits subject to preemption by CINCPAC. NTS WIDEBAND LEASES Leased wideband channels from which additional narrowband channels are derived in providing transmission media for the Defense Communications System and the Naval Telecommunications Systems.

Leased Communications (continued) Activity Group:

III. Ferformance Criteria (continued)

4,576 4,426 4,097 ENVIRONMENTAL DATA

These funds cover circuitry used to disseminate environmental data to the operating forces of the Navy and includes the following programs:

Civil & National Oceanic & Atmospheric Administration Weather Services Geostationary Operational Environmental Satellite Mavy Environmental Data Network Continental Meteorological Data Systems

Provides funds to finance interconnecting leased data facilities which permit Submarine Force Commander to use information from very low frequency (VLF) and low 833

923 826 frequency (LF) transmitters.

Anti-Submarine Warfare Command, Control & Communications Systems (ASWCCCS) leased communications funds are used to finance a system of leased and government-owned circuits ASWCCCS provides communications between the ASW Force Commanders and other commands. which permit ASW Force Commanders to command and control forces.

19,036 16,565 15,886 AUTOMATION

These funds finance a series of automated message exchange terminals, their remote access equipment, supporting access lines and interface devices. Funds are required to cover the cost of delivery of messages by domestic and inter-nation common carriers as required for the conduct of official government business.

COMMERCIAL REFILE

Activity Group: Leased Communications (continued)

### III. Performance Criteria (continued)

in support of personnel accounting functions of the Chief of Navy Personnel; communication system interfacing intelligence and operational components of the fleet; communication These funds are for other approved telecommunications circuitry and services such circuitry necessary for the execution of station missions, tasks and functions; circuitry 22,076 links between major commands and the National Command Authority; miscellaneous support services for the Chief of Naval Operations and Commandant of the Marine Corps; 21,535 19,875 programs not otherwise categorized. OTHER LEASED SERVICES 12.

13. LEASAT COMMUNICATIONS 1, 474

52,821

JEASAT provides effective, reliable and survivable communications links among Navy Mobile forces and between these forces and command elements ashore.

IV. Personnel Summary

X / Y

#### Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

(WINNECCS) Worldwide Military Command and Control System III - Intelligence & Communications Budget Activity: Activity Group:

### I. Description of Operations Financed

The Worldwide Military Command and Control System (WWMCCS) offers the means for command and control of authorities and subordinate commanders in carrying out command and control functional tasks. Included are monitoring current situations including the status of U.S. and non-U.S. forces, responding to warning and WWHCCS Tactical software toward operation and maintenance of Automatic Data Processing Equipment (ADPE) to support Navy command applications systems computer programs. The major functions of WMMCCS Station Operations are directed threat assessments, employing forces and executing operations plans, performing attack strike damage assessment, reconstituting and redirecting forces, and terminating hostilities and active operations Resources for this program support WMMCCS U.S Hilitary Forces. The system provides rapid, reliable and secure Automatic Data Processing (ADP) Development provides for design, development, maintenance and technical support of standard WANCCS Engineering and Installation, WWMCCS Tactical Software Development and WWMCCS Station Operations. WHAYCCS Engineering and Installation program provides funds for engineering installation plans and nstallation of all WWMCCS ADP and associated communications support equipment. systems at and between WMMCCS nodes throughout the world.

## II. Financial Summary (Dollars in Thousands).

#### A. Sub-Activity Group Breakout:

			FY 1989			,
:	FY 1988 Actual	Amended Pres. Budget	Appro- priation	Current Estimate	FY 1990 Budget Request	FY 1991 Budget Request
Station Operations Engineering & Installation Tactical Software	17, 604 2, 288 608	17, 492 2, 601 2, 531	16,466 2,506 2,475	16,659 2,508 1,466	18,141 3,283 725	18, 896 2, 926 2, 445
Total	20,500	22, 624	21,447	20, 633	22,149	24,267

06M, N 3-22 (48) 48 (90) 89

## C. Reconciliation of Increases and Decreases.

imate
Esti
Current
1989
FY
-

#### 2. Pricing Adjustments

ay Raise								**,	
9 Direct P		<u>.</u>						ments	nts
of FY 198		Pay Reis		_			nd Rates	ncy Adjust	Ad justme
Annualization of FY 1989 Direct Pay Raise	(1) Classified	FY 1990 Direct Pay Reise	1) Classified	(2) Wage Board	Stock Fund	(1) Non-fuel	Industrial Fund Rates	Foreign Currency Adjustments	Other Pricing Adjustments
*	_		_	_	ප	_	I		

#### 3. Program Increases

	ng unit replacement
စာ	unit
FY 1990 Costs	[1] Air conditioning
( 199	nditi
9)	õ
One-time	Air
one.	(1)
Ä	

	1990
	F
	in
(2) WIS supplies	Other Program Growth in FY 1990
	æ

(2, 150)

431

(38)

(6) (59) (470)

(1) Station Operations Increase for DPS-8	mainframe hardware in support of the Navy	Transaction Processing Executive (NTPE) and	the Navy WMMMCS Software Standardization	(NWSS) and software licensing fees.
•	•			

ن

Engineering and Installation increase for WIS CINCUSNAVEUR, CLUCPACFLT and CINCUSNAVEUR. engineering and associated costs for site preparation and installation of Block A equipment at USCINCLANT, USCINCPAC and (2)

WWMCCS ADP equipment and new WIS workstations. Increase for hardware maintenance of existing (3)

1,022

Program Decreases

Other Program Decreases in FY 1999 ä

(1) Decrease reflects eight less Permanent Change of Station moves in FY 1990.

a result of delay in full implementation of Decrease in Station Operations expenses as WIS at CNO sites. (2)

Review of actual work efforts being performed indicates this portion of the Realignment of a portion of Tactical Software funding to the BA-2, Navy Command and Control effort is more appropriate to NCC funding. (NCC) Program. (3)

software maintenance support subsequent to Decrease in Tactical Software contracted delay in WIS implementation. (4)

additional support for contract maintenance. (5) Reduction of one work year to provide

-1,346

[-1,346)

-294

-193

	converting to ownership.		
S	FY 1990 President's Budget Request		
	Pricing Adjustments		
	A. Annualization of FY 1990 Direct Pay Raise		(30)
	(1) Classified		30
	b. FI 1991 Direct ray waise (1) Classified		(123)
	(2) Wage Board		7
	C. Stock Fund		<u>5</u> v
	D. Industrial Fund Rates		e e
	E. Other Pricing Adjustments		(443)
:	Functional Program Transfers		
	A. Transfers in		(100)
	<ol> <li>Inter-Appropriation</li> <li>Transfer of resources from other appropriations and accounts to reflect the conversion of contracted advisory and societance services to in-house performance to reduce the</li> </ol>	ations and accounts divisory and	100

\$22,110

Recent examinations by the Naval Investigative Service and

by the Navy Inspector General have shown that excessive

contractor involvement contains the potential for disclosure of sensitive information and improper

preparation of specifications or processing of procurement

documentation. Civilian personnel workyears and end

strength are increased I and I respectively.

## Worldwide Military Command and Control System (WWMCCS) (continued) Activity Group:

# Reconciliation of Increases and Decreases (continued)

2.0	8. Program Increases	
	Annualization of FY 1990 Increases	
	(1) Increase to full year maintenance for WiS hardware.	
e.	One-time FY 1991 Costs	
	(1) One additional workday of civilian employment in FY 1991.	
ပ	C. Other Program Growth in FY 1991	(3,202)
	(1) WWMCCS Tactical Software - Increased effort for WIS conversion, installation and maintenance Increase for modifications, coding, testing	1,706

current WWMCCS standard ADPE. The final increment Block C management system and a joint message processing requirements not accomplished by Blocks A and B. These form the basic foundation for environment which will eventually replace the onto Block A by fielding a standard data base with modern workstations in Block al; and the Block B builds Block A provides the local area network (JAN) Automated Message handling (AMH) system in will fulfill the remaining WIS strategic of JOPES will be implemented on Block B. orderly future enhancements. WIS Modernization Efforts: Block A2. (2)

required for WWACCS sites at USCINCPAC, USCINCLANT

CINCUSNAVEUR and Navy Command Center.

standardized releases. Software packages are

and documenting changes in Navy WWHCCS

# C. Reconciliation of Increases and Decreases (continued)

A. One-time FY 1990 Costs  A. One-time FY 1990 Costs  (1) Air conditioning unit replacement  (2) WIS Supplies  B. Other Program Decreases in FY 1991  (1) Reduction in licensing fees, maintenance/ support of hardware and proprietary system software main.cnance due to budget constraints.  (2) Reduction to WMWCCS ADP operations and maintenance as WIS becomes operational in FY 1991.  (3) Engineering and Installation - decrease in engineering and associated costs and site preparation and installation costs as WIS is implemented.				
me FY 1990 Costs  It conditioning unit replacement  S. Supplies  Program Decreases in FY 1991  phort of hardware and proprietary system  oftware main.enance due to budget constraints.  Squetion to WMWCCS ADP operations and  intenance as WIS becomes operational  off 1991.  FY 1991.  FY 1991.  FY 1991.  FY 1991.  FY 1991.  Sqineering and Installation - decrease in  ngineering and installation costs and  ite preparation and installation costs  s WIS is implemented.	Program	1 Decreases		
Supplies Supplies Program Decreases in FY 1991  Function in licensing fees, maintenance/ pport of hardware and proprietary system oftware maintenance due to budget constraints.  Squetica to WWMCCS ADP operations and intenance as WIS becomes operational  FY 1991.	A. One	-time FY 1990 Costs		(-39)
Program Decreases in FY 1991  cuction in licensing fees, maintenance/ pport of hardware and proprietary system oftware maintenance due to budget constraints.  cuction to WWMCCS ADP operations and intenance as WIS becomes operational  FY 1991.	3	Air conditioning unit replacement		-35
Program Decreases in FY 1991  eduction in licensing fees, maintenance/ pport of hardware and proprietary system oftware maintenance due to budget constraints.  eduction to WWMCCS ADP operations and intenance as WIS becomes operational  FY 1991.	(2)	WIS Supplies	•	4
	B. Oth		<b>(1-)</b>	, 980)
Reduction to WMMCCS ADP operations and maintenance as WIS becomes operational in FY 1991.  Engineering and Installation - decrease in engineering and associated costs and site preparation and installation costs as WIS is implemented.	3	Reduction in licensing fees, maintenance/support of hardware and proprietary system software maintenance due to budget constra		-589
in	(3)			-836
	<b>6</b>			-555

Worldwide Military Command and Control System (WMMCCS) (continued) Activity Group:

Ţ.	11. Performance Criteria	FY 1988	FY 1989	FY 1990	FY 1991
	Number of Installation Sites	yo (	91	œ ;	17
	Number of Installations	¥€   F	<u> </u>	2 2	17
	Contractor Workyears Number of Terminals Supported	188	1,129	1,268	1,428
	Number of Remote Sites/ Terminals at Remote Sites Number of Jobs Number of Exercises	121/389 126/388 137/423 139/596 1,759,843 1,514,139 1,859,241 1,992,777 63 69 69	126/388 ,814,139 1 69	137/423 ,859,241 1 69	139/596 ,992,777 69
>	Personnel Summary.	FY 1988	FY 1989	FY 1990	FY 1991
	End Strength (E/S)	•			
	A. Hilitary	414	438	408	398
	Officer Enlisted	64 350	61 377	355 353	52 346
	B. Civilian	117	124	125	125
	USDF	117	124	125	125

#### DEPARTMENT OF THE NAVY OPERATION AND MAINTENANCE, MAVY EXHIBIT OP-05

Activity Group: Management Headquarters
Budget Activity: III - Intelligence & Communications

## . Description of Operations Financed:

The FY 1990 through FY 1991 funding level will provide necessary resources to support 165 Commanders and other governmental bodies for whom the Navy provides communications services. communication systems are properly provided to accomplish assigned tasking from CNO, Fleet civilians and 76 military personnel. Personnel ensure that funding, manpower, and

## II. Financial Summary (Dollars in Thousands)

#### A. Sub-Activity Group Breakout:

FY 1989	Amended FY 1990 FY 1991 FY 1988 Pres. Appro- Current Budget Budget Actual Budget priation Estimate Request Request	7,003 6,700 6,700 7,436 7,299 7,523	6, 700
	FY 1980	Telecommunications Headquarters	Total 7,003

Š.	١
Decrease	
and	
Increases	
of	l
Reconciliation	
<b>.</b>	

	I. FY	FY 1989 Current Estimate	<b>!</b>	\$7,436	
	2. Pr	Pricing Adjustments		167	
	₩.	Annualization of FY 1989 Direct Pay Raise	(18)		
•	æ		(77)		
	ပ		(4)		
		(1) Non-Fuel	•		
	<u>.</u>	Industrial Fund Rates Other Pricing Adjustments	(3)		
'		Coner, a recently no justiments	(ca)		
m)	3. Pr	Program Decreases	•	-304	
	ď	Other Program Decreases in FY 1990	(-304)		
		(1) Decrease in travel associated with conducting safety inspections.	-50	. 1. 2	٠
			-254	. • • • • •	
	•	implementation of COPE.			
4	I. FY	FY 1990 Budget Request		\$1,299	
<b>.</b>	5. Pr.	Pricing Adjustments		199	
	A.	Annualization of FY 1990 Direct Pay Raise	(26)		
•	æ.	FY 1991 Direct Pay Raise	(116)		
٠	ပ	Stock Fund	(4)		
	6	(1) Non-fuel	# (f)		
	ė	Other Pricing Adjustments	(20)		

0&M, N 3-30 Activity Group: Management Headquarters (continued)

B. Reconciliation of Increases and Decreases (continued)

5. Program Increase

A. Other Program Growth in FY 1991

(1) Increase for one additional paid day.

25

7. FY 1991 Budget Request

\$7,523

25

#### III. Performance Criteria

manpower and communications systems are properly provided to accomplish the assigned tasking from CNO, Fleet Commanders and other governmental bodies for whom the Mavy package. Operations performed are for the sole purpose of ensuring that funding, Cost factors are not reflective of the performance criteria for this program provides communications.

	FY 1991
	FY 1990
	FY 1989
	FY 1988
	•
•	nnel Summary.
	Perso

IV.

	16	58 18	165	165	
	376	58 18	165	165	
	11	59 18	165	165	
	8	59 22	162	162	
- 1		•			
			· -		
End Strength (E/S)	Military	Officer Enlisted	Civilian	изрн	
End	Α.		æ		

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Actimity Group: Other Communications Budgot Activity: III - Intelligence & Communications

. Description of Operations Financed.

#### Station Operations

Communications Units, and the ongoing efforts of the Naval Telecommunications Command Automation Software These funds support Naval Communications Area Master Stations, Naval Communications Stations, Naval Frogram (ashore and afloat).

#### Equipment Installation

These installation projects provide operational commanders with reliable, secure, and rapid information Statellite Communications requirements and the Minimum Essential Emergency Communications Network (MEECN) Supported in this program are Fleet transfer systems for effective command and control of the Navy.

#### Communications Security

development of procedures to be used in situations where the physical security of COMSEC material has been Communications Security (COMSEC) program functions include providing technical and engineering support operations including surveillance, training, vulnerability assessment, engineering and technical services, handling classified information. COMSEC further includes maintenance, overhaul, repair and modification costs for Fleet cryptographic devices and systems. The Signals Security program elecompasses six basic Communications Security Material System include management and operation of the office of the Director, in the development and operational evaluation of new equipment, subsystems and ancillary devices and performance of comprehensive instrumented tests (TEMPEST surveys) of shipboard and shore facilities management of COMSEC material, a Central Office of Record to account for all COMSEC material, and installation and de-installation, and overhaul/refurbishment. Operations financed under Navy

Activity Group: Other Communications (continued)

### II. Financial Summary (Pollars in Thousands).

A. Sub-Activity Group Breakout.

			FY 1989			4
	FY 1988 Actual	Amended Pres. Budget	Appro- priation	Current Estimate	FY 1990 Budget Request	FY 1991 Budget Kequest
Station Operations Equipment Installation Communications Security	96, 098 58, 899 40, 224	97,720 50,995 32,264	90, 181 49, 657 31, 615	87,436 48,990 30,774	96,173 52,352 40,389	98,259 55,112 39,420
Total	195,221	180,979	171,453	167,200	188,914	192,791

### III. Reconciliation of Increases and Decreases.

1 FY 1989 Current Estimate		\$167,240
o pricing Adiustments		6, 4 19
לי בנדנות יים לתחניים לתחניים יים לתום		
A. Annualization of FY 1989 Direct Pay Raise		(350)
(1) Classified		112
(2) Wage Board		7 =
(3) Foreign National Direct Hire		1802)
B. FY 1990 Direct Pay Raise		663
(1) Classified		מים מים
(2) Wage Board		C 0
(3) Foreign National Direct Hire		(96-)
C. Stock Fund	-	- 28
(1) Non-Fuel		1076
D. Industrial Fund Rates		(747)
N. W3O	-	

· · · · · · · · · · · · · · · · · · ·			
E. FN Indirect Hire	F. Foreign Currency Adjustments	G. Other Pricing Adjustments	

-1,200

(-1,200)

-1,200

(-1,200)

#### 3. Functional Program Transfers

A. Transfers Out		
(1) Inter-Appropriation	· .	

performance to reduce the risk of compromise to the examinations by the Naval Investigative Service and potential for disclosure of sensitive information Transfer of resources to other appropriations and accounts to reflect the conversion of contracted excessive contractor involvement contains the by the Navy Inspector General have shown that and improper preparation of specifications or advisory and assistance services to in-house Recent processing of procurement documentation. acquisition procurement process. (<u>a</u>

#### 4. Program Increases

### A. Other Program Growth in FY 1990

(1) Extremely High Frequency (EHF) Satellite engineering and installation drawings Communications. Funds provide for management support of modest cost, System Engineering Plan (BESEPS), initial ISEA planning, depot and widely deployable EMF terminals Software Support Activity (SSA) planning and installation; and preparation of Base Electronic capable of providing reliable

(24,325)

wartime, covert, jam resistant communications under the projected threat environment. This program is transitioning from RDTEE to O#MM.

- (2) Battle Group Satellite Communications (SATCOM). Funds provide for start of Tactical Receive Equipment (TRE) software integration; installation of Tactical Data Information Exchange Subsystem (TADIXS) shore facility upgrade; and increases in Software Support Activity support for Officer in Tactical Command Information Exchange Subsystem (OTCIXS) II.
- (3) Radio Direction Finding Communications
  (RDFCOMM). Funds provide for increased
  installations schedule for Tactical Intelligence
  (TACINTEL) and Combat DF Comms and start
  of TACINTEL controller software modification.

417

an increase in PITCO and ISEA support as a result hardware and software changes. FY 1990 reflects of an increase in the delivery of production GPS support in the area of In-Service Engineering of testing all GPS user equipment in a system Activity (ISEA) efforts. The purpose of the problems and to perform analysis of proposed configuration prior to installation on Navy platforms, to investigate fleet operational ISEA facility is to provide the capability (PITCO) and program management/technical NAVSTAR Global Position System (GPS). in pre-installation test and checkout Increase is a result of an increase user equipment. (Ŧ)

. 991

Activity Group: Other Communications (continued)

III. Reconciliation of Increases and Decreases (continued)

on-orbit anomaly analysis (spacecraft abnormalities corrected via a command uplink channel) in support modest increase in program management support for of an expanded constellation of satellites and a Satellite Communications (SATCOM) Increase reflects additional the UHF Follow-On Satellites. Spacecraft Support. 3

927

Standard Remote Terminals (SRT) and Remote Interface to 11 upgrades scheduled, site preparation, and capabilities, and/or replace AUTODIN terminals for message processing purposes. Increase due This is an on-going installs project to standardize, modernize, upgrade Remote Automated Terminals (RAIS). Exchange Terminal (RIXT). installation. 9

Manual Relay Center Modernization Program (MARCEMP). for message processing. It increases the speed of message delivery, reliability, and accountability. modernized ship-to-shore termination procedures Increase due to installation of two additional Replaces the AN/FGC-73 and AN/FGC-178 with systems. <u>(;</u>

approved teleprinter for ship and shore users to replace the Model 28 TTYS. Increase due to installation Navy Standard Teleprinter (NST). Provides a service start at one fleet training center and site preparation for FY 1992 installations. 8

HF send and receive capabilities at the communications Antenna Replacement. Replaces antennas that provide Increase due to multiple stations. Existing antennas are inadequate due to design deficiencies, cost prohibitive maintenance antenna installation at 1 established OCONUS and problems or obsolescence. 6)

3-36

754

140

s (continued)
Communications
Other
Group:
Activity

#### 2 CONUS locations.

244

(10) Area Wideband Programs. Convert the DCS from analog to digital transmission and onsolidate DCS communications into more coherent, efficient communications systems. Increase due to installation start at two new locations.

859

transmission systems at Navy locations in concert with other programs and military department efforts. This is part of an interlocking program to support the DCS and upgrade of transmission systems to digital. Increase due to installation at an additional location.

229

- (12) Low Speed Time Division Multiplex (LSTDM). Replaces obsolete analogous Voice-Frequency-Carrier Telecommunications (VFCT) in Navy communication systems with digital time division multiplex equipment and associated modems/line drivers. Increase due to installation at two new locations.
- (13) Technical Control Improvement (TCIP). Replaces existing aged, manpower intensive technical control equipment with upgraded equipment for quainty monitoring, fault isolation, remote control and automatic switching of technical control functions worldwide. This effort is part of interlocking programs to support the DCS and NTS transmission systems upgrade. Increase due to addition of a new location.
- (14) DCS Orderwire. Provides standardized terminal and intercommunications equipment as well as common control equipment to interconnect basic

J.

orderwise circuits. Program has been held in abeyance the to funding levels available.

FY 1990 will be first year the program will be available to resume worldwide installation.

- (15) DCS Quality Assurance/Technical Evaluation Program (GA/T2P). Provides support for three teams of experts that conduct evaluations of technical networks to ensure systems are operating at established performance standards. In addition to evaluation Navy systems, the teams conduct evaluations of Air Force and Army systems within assigned geographical locations to ensure intercommunication. Increase due to evaluations required in FY 1990.
- Management. Provides survivability and connectivity for top priority communications circuits. This is part of an interlocking program to support the DCS and upgrade of transmission systems to digital. Increase will fund electronic design, purchase of installation/test of electronics equipment in shielded circlosures.
- (1... International Interoperability. Frovides U.S. Navy technical representation to the AUSCANNZUKUS Technical Working Group (TWG) and Permanent Steering Group (PSG), ensuring that international Data Exchange Agreements, Information Exchange Programs and Memoranda of Understanding concerning C2 Tactical Data-Systems and Naval Communication Systems receive appropriate technical review and U.S. Positions are represented and defended. The program is also assuming an expanding role in providing direct support to fleet elements in

### Activity Group: Other Communications (continued)

# III. Reconciliation of Increases and Decreases (continued)

the identification and resolution of international	interoperability problems through participation	in support of joint exercises. Increases in:
the identification	interoperability	in support of join

			٠		
a. AUSCANNZUKUS Technical Management Support. U.S. will assume chairmanship of AUSCANNZUKUS PSG technical committee,	necessitating additional support due to	the coordination and administrative tasks	involved (planning the agenda, taking notes,	minutes, etc.)	Supplied of the Columbian Columbian

direct to identify	
b. Fleet Interoperability Problem Solving. Enhanced capability to provide direct support during joint exercises to identify interoperability problems.	

		٠	
(18) Increase in MEECN due to several new Air Force and Navy	Diversity Receive Equipment (DRE), E-48 Worldwide	Airborne National Command Fost incerim and incer-	
new A	E-4	Let the	1
veral	(DRE)	MAMPH &	
to se	ipment	mano r	ילחד ב
due	Equ		
MEECN	eceive	tional	ac wii cation
Ë	YR	Na Na	s ch ifi
Increase	Diversit	Airborne	programs that will ted
181			•

161

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stablish a five year	tennas.
stablish a five year	intennas.
Establish a five year maintenance, painting	antennas.
Establish a five year maintenance, painting	antennas.
) Establish a five year maintenance, painting	antennas.
9) Establish a five year cycle of overhaul, maintenance, painting and preservation for SATCOM	antennas.
19) Establish a five year maintenance, painting	antennas.
(19) Establish a five year cycle of overhaul, maintenance, painting and preservation fo	antennas.

(20) Repair parts and maintenance support for support for new SATCOM equipment.	000	777	
(20) Repair parts and maintenance support for support for new SATCOM equipment.			
.=		(20) Repair parts and maintenance support for	support for new SATCOM equipment.

353	440
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	ble to er overhauls.
(21) Begin upgrade of SATCOM sites.	(22) Increase the level of funding available to accomplish SATCOM SHF E.T. transmitter overhauls.
(2	12

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to	
(23) Increase the level of funding available to	accomplish SATCOM HEMP maintenance.
Jo	HEM
he level	SATCCM
Increase t	accomplish
(23)	

South Atlantic Upgrade: funds new requirement for the maintenance of increased electrical power (generator) and air conditioning capability.  Forty-eight (48) obsolete AN/FET 39/4C HF transmitters will be replaced in FY 1990 with AN/FET-96 HF transmitters that will require unique items fo. self-help installation, site preparation and technical assistance. Replacement program will continue through FY 1934.  Strategic Homeporting: New contractor-operated NTCC sites will be established to provided over-the-counter AUTODIN services for afloat and ashore activities.  Secure Terminal Unit III (STU-III) will replace existing STU-II, AUTOSEVOCOM, wideband and narrowband systems. Funds will provide for installation and for maintenance service agreements.  Ranto Flain microwave contract supports replacement of analog equiument with digital equipment.	238	131	95	20	139	673	75
	(24) Increased level of funding required to accomplish required PCS moves.	(25) South Atlantic Upgrade: funds new requirement for the maintenance of increased electrical power (generator) and air conditioning capability.	transmitters will be replaced in FY 1990 with transmitters will be replaced in FY 1990 with AN/FRT-95 HF transmitters that will require unique items fo, self-help installation, site preparation and technical assistance. Replacement program will continue through FY 1994.	(27) Strategic Homeporting: New contractor-operated NTCC sites will be established to provided over-the-counter AUTODIN services for afloat and ashore activities.	(28) Secure Terminal Unit III (STU-III; will replace existing STU-II, AUTOSEVOCOM, wideband and narrowband systems. Funds will provide for installation and for maintenance service agreements.	(29) Kanto Fiain microwave contract supports replacement of analog equipment with digital equipment.	(30) Quality Assurance/Technical Evaluation Program: NAVTELCOM will provide one of three MILDEP

Technical Evaluation Teams to test, evaluate, and

repair DCS government-owned transmission and the DCS Automatic Switchhoard Networks (AUTOSEVOCOM and ATUOVOH).

(31) Mediterranean Realignment. Funds for this classified	project will support additional HF equipment at	•
iterranean Realignment	ject will support addi	Sigonella and Greece.
(31) Med	bro	Sig

530

352

- (32) Manual Relay Center Modernization Program (MARCEMP).
  This project increases speed of message delivery, reliability and accountability for ship-to-shore terminations. Funds will provide software modification/maintenance and hardware modification/maintenance.
- (33) Provide funds for additional cost of firmware maintenance of the Demand Assigned Multiple Access (DAMA)/TD1271 and increased cost of software maintenance of the Naval Modular Automated Communication System (NAVMACS) (V)5.
- (34) Increased support of DCMS for small equipments, warehouse storage and packaging products.
- (35) Increase of 110 ANDVT equipment installations (55 shore sites).
  (36) KG-84/KG-36 Replacement The replacement of KG-30 with the KG-84 crypto equipment commences in

advance planning for an additional 73 racks (755)

and 37 rack installations (762).

This program includes increases for

FY 1990.

1,517

1,067

- (37) KG-84 Phase II Installations In FY 1990, installation of 105 KG-84 crypto racks (1,784) and advance planning for an additional 21 rack installations (143).
- (38) TSEC/KY-57 (VINSON) Increase of 109 installation sites to meet JCS/NSA's directed date for the KY-8 replacement cutoff. KY-58 replaces KY-8.

1-41

789

174

1,927

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#### 111. Reconciliation of Increases and Decreases (continued) Activity Group: Other Communications (continued)

6	(39) TEMPEST - Represents an increase of 85 surveys to address high threat areas as directed by CNO and DoD.	
433	(49) Cryptographic Repair RG-84/RW-7 Replacement - Increase of 63 circuit cutovers.	28 28 28 28 28
41)	(41) Increase to support JCS requirements for systems documentation for the UNF follow-on constellation.	155
(42)	(42) Increase to fully fund Fleet EHF Package program.	~
(43)	COMSEC Installations. Increase in training, installation and operations of Automated Emergency Action Message Processing and Dissemination System.	2,000
(44)	(44) COMSEC Technical Support. Increase in technical and engineering support from the Maval Electronics System Engineering Center.	324
rogi	5. Program Decreases	

-7,850

(-195)

-1.95

B. Other Program Decreases in FY 1990

currency rate variance. Presumes improvement in exchange rate.

(1) NAVCOMMSTA H.E. Holt Australia Foreign

A. One Time FY 1989 Costs

 $\{-7,655\}$ 

assist visit, equipment conversions, field (1) Satellite Communication Support. Decrease ISEA support for AN/NSC-3 (i.e., technical changes, configuration updates, technical manual reviews and revisions.)

-909

06M, N 3-42

## Activity Group: Other Communications (continued)

# III. Reconciliation of Increases and Decreases (continued)

Decrease in-	
(SVT).	SVT.
Voice Terminal	ion efforts for
Secure	stallatio
(2)	

- (3) Submarine SATCOM. The decrease represents a reduction in the In-Service Engineering Agency (ISEA) and technical assistance for the submarine SATCOM program, fewer installations and reductions in engineering and management assist requirements.
- (4) NAVSTAR Global Position System (GPS).
  Reflects reductions in technical support for reliability/maintainability, configuration management and maintenance planning efforts.
- (5) Spacecraft Satellite Communications (SATCOM)
  Support. Reflects reductions in (ISEA)
  technical assist visits and program management
  support for verification/validation of UHF
  follow-on satellites.

-42

-48

-548

- (6) SHF SATCOM. This decrease represents reduced installation support for the AN/WSC-6-OM55, the annual grooming for the AN/WSC-6 shipboard suites on fleet flagships and annual test and checkout for the High Altitude Electromagnetic Pulse (HEMP) hardening at the SATCOM SHF shore sites.
- (7) Local Digital Message Exchange (LDMX).

  Decrease due to FY 1989 completion of three systems.
- (8) AN/FRT-80 Series Field Change. Decrease due to three less installations in FY 1990.
- (9) AN/FRT-96 Transmitter. Decrease due to

06M, N 3-43

-357

-1,428

Activity Group: Other Communications (continued)

# III. Reconciliation of Increases and Decreases (continued)

CONUS vice OCONUS locations. FY 1989 installations are at Whidbey Island, WA, Iceland, and Adak, Alaska, and site preparation is accomplished with installation. FY 1990 installations are at Key West, Fuget Sound, and Jacksonville. Decrease due to one less installation in FY 1989.

- (10) HF SURTASS. Decrease due to FY 1989 project completion.
- (11) Ashore Mcbile Contingency Communications
  (AMCC) Vans. Provided to Fleet CINCS
  with a mobile tactical communications
  ability for emergency deployment and as a
  shelter for current vans. Major effort
  on vans completed in FY 1989. FY 1990 funds
  minor effort on two vans and engineering
  support for center of expertise. Decrease
  due to FY 1989 completion of installations.
- (12) Regency Net. Decrease due to FY 1989 completion of program.
- (13) Upgrades/Expansions/Relocations. Decrease due to completion of four sites in FY 1989.
- (14) Defense Data Network (DDN). Decrease due to procurement slip and delayed delivery.
- (15) Autovon/Defense Switch Network (DSN). Decrease due to procurement slip and delayed delivery.

(16) FY 1989 Efficiency Review (ER) workyear decreases

(17) Net savings for FY 1989 CA studies

06M, N 3-44

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-454

-111

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-189

-649

-72

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-444

#### EHF Package Program (FEP).

3) KG-84/KW-7 Replacement - Decrease of 15 rack	installations, decrease in advance planning for	119 rack installations and decreased site	certification costs.
(18) KG-	ins	119	cer

-1,331

-22

and repair support	SCP and SAS.
(19) Reduce maintenance	for SVIP (STU III),

nic repair depot maintenand	
depot	
repair	
ryptograpl	at Naval Shipyard
Reduced o	at Naval
(20)	•

### 6. FY 1990 President's Budget Request

#### 7. Pricing Adjustments

5, 431

\$188,914

	A. Annualization of Fi 1990 Direct ray marse	
	(1) Classified	
	(2) Wage Board	
	(3) Foreign National Direct Hire	
8.	FY 1991 Direct Pay Raise	
,	(1) Classified	
	(2) Wage Board	
_		
ن ن	놙	
	(1) Non-fuel	
	Industrial Fund Rates	
<u>د</u>	FN Indirect Hire	÷
	Other Pricing Adjustments	

1,257)

83 101 (190) 190 (453) (78)

8. Program Increases

A. Annualization of FY 1990 Increases

(1) Strategic Homeporting

14, 990

(1,592)

1,592

04M, N 3-45

#### B. Other Program Growth

(13,398)

deployable EMF terminals capable of providing reliable wartime, covert, jam resistant cominstallations which are modest cost, widely shore sites in preparation of EHF terminal Funds provide for modifications of power, (1) Extremely High Frequency (EHF) Satellite munications under the projected threat. cooling and physical structure at Communications: environment.

contractor to government support at ISEA, Preparation of plans for transition from depot and SSA.

296

290

110

1,070

Modification of power, cooling and physical structures to support maintenance equipment at the ISEA and depot.

services to support site preparation/modifica-Prime contractor engineering field/plant tion, terminal installation and organic maintenance planning.

transition from RDI&E for headquarters support Additional level of effort in O&M,N due to and travel.

- Start installation of AN/WSC-3 vulnerability Satellite Communications Support. modifications. (2)
- dimensional positioning capability to the (3) NAVSTAR Global Position System (GPS). Provides continuous worldwide three-

1,289

06M, N 3-46

failure tracking and reporting, configuration and updating the Central Engineering Activity production user equipment. FY 1991 reflects distribution, database management, inventory technical support as the following efforts transition from R&D to O&M,N: maintaining Library, user equipment software/hardware management, technical manual printing and be installed on more than 7,000 platforms result of an increase in the delivery of operational forces. User equipment will increase in PITCO and ISEA efforts as a based platforms.) FY 1991 reflects an (aircraft, ships, submarines and land an increase in program management and management and logistic support.

program for contract award, contract monitoring additional on-orbit anomaly analysis in support of an expanded constellation of satellites and an increase in program management support for Support. Provides logistic support of Leased Satellite Communications (FLTSATCOM) on-orbit for emulating orbital problems; and planning, the UHF Follow-on satellites. Also provides Spacecraft Satellite Communications (SATCOM) preparation and documentation in support of of the Ultra High Frequency (UHF) Follow-on program for contract monitoring and program anomalies and support of the qualification model spacecraft used as a diagnostic tool and program oversight. Increase reflects for planning and documentation in support the Ultra High Frequency (UHF) Follow-on Satellite (LEASAT) GFE, analyzing Fleet (4)

- (5) Manual Relay Center Modernization Program (MARCEMP). Replaces the AN/FGC-73 and AN/FGC-178 with modernization ship-to-shore termination procedures for message processing. It increases the speed of message delivery, reliability, and accountability. Increase due to OCONUS installations.
- (6) AN/FRI-80 Series Field Change. Extends service life of the AN/FRI-80 series transmitters until the mid 1990s when new HF equipment is anticipated. Increase due to the mix of equipments to be installed at each location.
- (7) Chirpsounder. Provides more reliable communications by satisfying the requirement of real time determination of which frequencies in the HF range are optimum for transmission between two points. Increase is for Base Electronics System Engineering Plans (BESEPs), site surveys and engineering design. FY 1991 continues design and begins installation.

507

- (8) Upgrades/Expansions/Relocations. Provides engineering design, technical support and asbuilt drawings for relocation and installation of equipment to ensure efficient and effective communication capability at the Navy shore telecommunications sites. Increase due to expanded efforts in Mediterranean realignment and Strategic Home Porting.
- (9) Area Widehand Programs. Increase is to convert the DCS from analog to digital transmission and consolidate DCS communications into more coherent, efficient communications systems. This increase is due to expanded

3-48

7

efforts in the Washington Area Wideband.

transmission systems to digital. Increase is for the completion of the second phase of an Management. Provides survivability and con-This is part of an interlocking (10) Electromagnetic Protection (EMP) Spectrum nectivity for top priority communications program to support the DCS and upgrade of installation. circuits.

E-4B Worldwide Airborne National Command Post Interim NAMPM (WIM) programs that will require (11) MEECN increase due to several new Air Force and Navy Diversity Receive Equipment (URE), MMPM support, testing and certification.

256

[12] One additional CIVPERS workday

(13) Increase for additional DCMS material and supplies

133

KG-30 equipment with KG-84 with installation of an additional 73 racks of equipment (1,554) and circuit cutover/certifications at 21 sites (212) KG-84/KG-30 Replacement - Increase to replace (14)

KG-84 Phase II Installation - Increase to install (15)

1,049

and perform 68 circuit cutover/certifications at an additional 21 racks of KG-84 equipment (369) 68 sites (680). 332

Increase to provide for adequate training for repair personnel to meet new requirements and Cryptographic Repair Training. equipments to be repaired. (16)

83

(17) Depot Maintenance.

OEM, N 3 - 49

Activity Group: Other Communications (continued)

III. Reconciliation of Increases and Decreases (continued)

Increased Maval Shipyard support depot repair.

9. Program Decreases

A. Other Program Decreases in FY 1991

ciated rack installations are near completion. Provides for the installation of multiplexer Th 1271 B/U multiplexer and assosystems and phased integration of baseband Decrease reflects reduction in software (1) Demand Assigned Multiple Access (DAMA). support activity efforts. systems.

Digital Information Exchange Subsystems (TADIXS) Decrease reflects reduction in integration and Phase IV installation; and reduction in OTCIXS Battle Group Satellite Communications (SATCOM) test efforts due to deployment of Officer in systems (OTCIXS II); completion of Tactical Tactical Command Information Exchange Subinstallation planning. (2)

Decrease reflects reduction in engineering and Submarine Satellite Communications (SATCOM). management support functions. <u>(3)</u>

Radio Direction Finding (RDF) Communications. Tactical Intelligence Information Exchange Decrease reflects further reduction in Systems (TACINTEL) controller software modifications. **(4)** 

SHF SATCCM. Decrease reduces installations costs and management support requirements. 5

(6) Local Digital Message Exchange (LDMX)

04M, N 3-50

(-16,544)

-2,260

-417

-56

-1,396

### Activity Group: Other Communications (continued)

# III. Reconciliation of Increases and Decreases (continued)

	Decrease due to FY 1590 completion of one system.	-187
(2)	Antenna Replacement. Decrease due to two Less sites scheduled for installation.	-219
(8)	(8) AN/FRT-96 Transmitter. Decrease due to installation at one less location.	- 49
6	Digital Conversion Worldwide. Decrease due to completion of five locations and partial FY 1990 completion of four locations.	-1,066
(10)	Low Speed Time Division Multiplex (LSTUM). Decrease due to lesser amounts of equipment to be installed at the FY 1991 sites.	-53
(11)	Technical Control Improvement Program (TCIP). Decrease due to level of FY 1990 program completion.	-1,366
(12)	DCS Orderwire. Decrease due to two less installations in fY 1991.	-164
(13)	(13) Defense Data Network (DDN). Decrease due to installation at one less location.	-46
(14)	Autovon/Defense Switch Network (DSN). Decrease due to reduced effort planned in FY 1991.	66-
(15)	(15) DCS Quality Assurance/Technical Evaluation Program (QA/TSP). Decrease due to level of FY 1990 program accomplishments.	-124
(16)	Completion of NAVMACS conversion to VI and V2, completion of CUDIXS/NAVMACS NET DAMA and	-1,791

0£М, И -3-51

decrease of hardware acceptance test (HAT) and test and acceptance (T\$A) in NAVCOMPARS.		
of hardware acceptance test (HAT) acceptance (T4A) in HAVCCMPARS.	and	
of hardware acceptance test acceptance (T4A) in NAVCOMP	(HAT)	IRS.
of hardware acceptance acceptance acceptance (T\$A) in 1	test	VCCMP#
C K	t ance	<u>=</u>
C K	accep	(T5A)
C K	hardware	
decrease test and	Ç	200
	decrease	test and

(11)	(17) Net savings for FY 1990 CA Studies	ěρ
(18)	(18) FY 1990 Efficiency Review (ER) workyear	-21
(19)	(19) Decreased cost associated with Kanto Plain Microwave Contract hot cut-over.	-29.
		1

(20) Reduction in equipment maintenance coats due to disposal of antiquated equipment.	(21) KG-84/KW-7 Peplacement - Decrease in installation of 119 racks (-1,934), 128 less circuit cutovers (1,384) and 196 less site certifications (-329).
$\mathfrak{S}$	<u>\( \)</u>

-3,612

(22)	(1,384) and 196 less site certifications (-329). (22) TEMPEST - Decrease of 2 surveys.
(23)	(23) KG-30 Peptacement - Reduction in the advance planning for 23 less racks for installation.

(24) KG-84 Phase II - Reduction in advance planning for 1 less rack installation.	temporary
advano	s for
o <mark>n in</mark> tion.	on kit
KG-84 Phase II - Reduction in for I less rack installation.	(25) Completion of augmentation kits for temporary
o II	) E
Phas Jess	etion
KG-84 for 1	Comp 1
(24)	(22)

(25) Completion of augmentation kits for temporary installation into deploying ships to ensure compatibility of secure communications.
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support for	
nance and repair s	SAS.
and	and
Reduced maintenance	SVIP (STU 111), SCP
(32)	

-313

-1,195

#### 10. FY 1991 Budget Estimate

Activity Group: Other Communications (continued)

		-						~\		m - 1 m =	Δ1	<b></b>	
FY 1991		29, 387 30, 997 10, 368	20,583	98,259		38,340	1,016	55,112		3,643 3,261 20,528 9,080	36,512	2,908	
FY 1990		28,784 30,359 10,155	20, 161 6, 714	96,173		36,377 15,243	732	52,352		3,567 2,837 22,368 3,787	37,559	2,830	•
FY 1989		26, 220 27, 655 9, 251	18,365 5,945	87,436		35,098 13,346	546 0	48,990		2,275 2,458 15,144 8,312	28, 189	2,585	
FY 1988		29,146 30,740 10,284	20,415 5,513	860'98		41,708	506	58,895		3,800 3,600 20,504 9,800	37,704	2,520	Mac
III. Performance Criteria.	Station Operations (\$000)	Naval Communications Area Master Stations Naval Communications Stations	Naval Communications Supporting Program Satellite Tracking. Telemetry and Control	Total	Equipment Installation (\$000)	Satellite Communications Naval and Long-Haul Communications	Minimum Essential Emergency Communications Network Outfitting	Total	Communications Security (COMSEC) (\$000)	Security Standards and Assessment (TEMPEST Survey & Non-Survey) COMSEC Tech. Support (COMSEC Engineering) COMSEC Engineering and Installation Cryptographic Repair Depot Maintenance	Total Primary COMSEC	Total Signal Security	

Activity Group: Other Communications (continued)

90 FY 1991	255 255 -232 -230 650 573 -100 -100 573 498	equipment reconfigurations or relocations, charges in etc., resulting in the surveys no longer being requirent.	990 FY 1991	6, 971 6, 902 257 257	6,714 6,645 1,429 1,400	1,314 1,285 79 79 36 36	
FY 1989 FY 1990	No. of Surveys 255 255 -147 -232 642 650 -100 -100 650 573	sconfigurations ing in the surv	FY 1989 FY 1990	7,021 6,			
FY 1988	325 -295 712 -100		FY 1988	6, 649	6, 401 1, 542	1,424 82 36	. * 
111. Performance Criteria (continued)	TEMPEST Field Survey Program number of Surveys requested Hymbor of Surveys accomplished Frevious FY year end backlog humber of Surveys deleted*	Net backlog at year end Surveys deleted are due to facility closures, classification of information being processed, and therefore purged from the backlog.	IV. Personnel Summary.	End Strength (E/S) A. Military	Officer Enlisted	B. <u>Civilian</u> USDH FNDH	

OPERATION & MAINTENANCE, NAVY DEPARTMENT OF THE NAVY

III - Intelligence and Communications Environmental/Prediction Support Budget Activity: Activity Group:

### Description of Operations Financed

(b) CNO, Fleet and Systems Command requirements for Nava! air, surface and sub-surface operations; (c) DMA Funding within this activity group supports a broad range of operational oceanographic products and support requires the collection and processing of ocean environmental data and the provision of specific products to address: (a) Chief of Naval Operations (CNO) and Defense Mapping Agency (DMA) requirements. services which are provided to Navy/DOD operating forces and activities, both afloat and ashore. This. requirements for Unified and Specified Command nautical chart deficiencies; and (d) to provide general meteorological and oceanographic services to the Navy.

Oceanographic surveys are conducted from 12 ships operated by the Military Sealift Command and aircraft operated by Oceanographic Development Squadron EIGHT.

- Details are classified. Operations in Support of Strategic Systems.
- offensive and defensive mining and mine countermeasures); and (3) identify the effects that discontinuity Operations in Support of Tactical and Surveillance Systems. Oceanographic and geophysical wita ocean areas to: (1) assist in placement and installation of acoustic arrays and cables for the underwater areas (fronts and eddies) have on fixed and mobile ASW systems in regard to ASW/Undersea Warfare tacti s. which influence the performance of active and passive sensor and weapon systems are collected over brack Assessments, Mine Warfare Pilots and inputs to Fleet tactical manuals and sonar operating doctrine. surveillance network; (2) optimize the Anti-Submarine Warfare (ASW) sea control mission (including Products include computer assisted ASW prediction products, Planning Guides, Area Environmental
- C. Operations in Support of Navigation and Charting. (1) Hydrography. Hydrographic data are collected in nearshore areas to support the production of coastal, combat, approach, harbor and special purpose nautical charts to address DMA requirements. The data are principally collected from two (be ming specially configured aircraft is used to measure the earth's magnetic field. The collected magnetic wita is the primary input for development of the United States World Magnetic Model and is incorporated by AMA three in FY 1959 and four in FY 1991) coastal survey ships. Additional data are collected through international cooperative surveys and the Hydrographic Cooperative Program (HYCOOP). onto world charts.

Activity Group: Environmental/Frediction Support (continued)

## Description of Operations Financed (continued)

- meterrological data collected worldwide provides this processed data and data fields to regional centers; the Fleet Numerical Oceanography Center, Monterey, five major regional centers with Areas of Responsibility (AOR) for the Arctic, Pacific, Atlantic; Eastern meteorological equipment management and management of supporting Reserve units; and 63 smaller activities Resources fund the operation of 71 activities at sensors, etc., all of which support Mavy's worldwide oceanographic/meteorological forecast requirements. (A with over 200 employées - it provides general and tailored acoustic and meteorological forecasts to resources for major computer operations, communications, expendable oceanographic and meteorological which provide daily on-scene meteorological and oceanographic forecast support. Included also are Pacific/Indian Ocean and Mediterranean, respectively; one Facility responsible for centralized Flee! Commands and individual operating units - serves as the major processing center for all various locations throughout the world. These include: Operations in Support of Command and Control.
- Operations financed in this program include costs for aircraft E. Aircraft Support Operations. Aircraft Operations for Environmental/Prediction Support are provided by (1) Oceanographic Development Squadron Eight (VXN-8) for collection of Tactical and Surveillance data and by (2) two helicopters assigned to two large coastal survey ships (AGS's) for fuel, maintenance, and TAD in support of aircraft assigned. collection of Navigation and Charting data.

### I. Financial Summary (Dollars in Thousands).

### A. Subactivity Group Breakout.

	· ·	-
FY 1991 Budget Request	58, 566 79, 631 33, 876 38, 846 3, 258	214,177
FY 1990 Budget Request	51, 117 73, 814 33, 135 28, 550 3, 867	190,483
Current Estimate	53, 411 57, 819 25, 677 25, 261 4, 108	166,276
Appro- priation	55,054 55,452 23,032 25,818 4,231	163,587
Amended Pres. Budget	55, 293 59, 718 23, 443 25, 818	168,539
FY 1988 Actual	44,690 55,673 25,964 21,474 4,530	152, 331
	Strategic Systems Tactical and Surveillance Command and Control Havigation and Charting Aircraft Support	Total

FY 1989 Current Estimate

166,270

8,010

(450) 450 (622)

Annualization of FY 1989 Direct Pay Raises Pricing Adjustments

FY 1990 Direct Pay Raises Classified

Classified Wage Board

Stock Fund

Fue 1

Non-Fuel

Industrial Fund Rates Other Pricing Adjustments

Program Increases ٣. Annualization of FY 1989 increases Α.

Program, will be delivered for operational service contractor operation of these two ships, offset by the retirement of USNS DUTTON (which will be deep ocean bathymetric and gravity survey vessels (1) USNS MAURY and USNS TANNER, two new construction in FY 1989. FY 1990 funding reflects full-year which support Navy's high priority Ocean Survey replaced by USNS TANNER) as well as full-year costs for survey operations.

(5,452) (1,684)

(-195)

624

-122 -73 2,384

(3, 289)

06M, N

Artivity Group: Environmental/Prediction Support (continued)

Reconciliation of Increases and Decreases (continued)

within the FY 1989 Computer Acquisition Program within the FY 1989 Computer Acquisition Program for installation at the Naval Oceanographic Office, Stennis Space Center, MS, will be used for dynamic ocean and ice modelling to support dynamic ocean and ice modelling to support costs represent an increase in partial year costs represent an increase in partial year establishment of a contractor operations force, establishment of a contractor operations force, and other pre-installation prerequisites. FY 1990 costs will cover partial year contractor operations and hardware maintenance.

B. One-Time FY 1990 Costs

hydrographic data collection rates and hydrographic data collection rates and capabilities, a specially configured RP-3D capabilities, a specially configured RP-3D aircraft will be modified to carry a suite of hydrographic sensors which will be used to conduct hydrographic sensors which will be used to conduct airborne coastal hydrographic surveys. One time costs associated with this initiative include costs associated with this initiative include installation of airborne sensing systems, training, spaces, OPEVAL and other related items.

(2) The capabilities of the Bathymetric Data Editing and Analysis System at the Naval Oceanographic Office will be urgraded to improve the accuracy by which bathymetric data (collected during surveys carried out on-board four deep Ocean Survey Program vessels) is analyzed, processed and program vessels) is analyzed, processed and required to the level and degree of quality required for production of chart products by the Defense Mapping Agency.

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Activity Group: Environmental/Prediction Support (continued)

B. Reconciliation of Increases and Decreases (continued)

and processing to update the World Magnetic Model for EPOCH Year 1990 and 1995 requirements. Data sources for the EPOCH 1990 update include the Polar Orbiting Geomagnetic Survey satellite (which is scheduled for launch in FY 1989) as well as available vector magnetic data from other sources.

Responsibility. Additional resources will address System (NODDES) will provide Regional Oceanography NODDES system will be used to prepare oceanography an expansion of the system's capability to process Numerical Oceanography Center. This data and the support products which address the specific needs Centers with the capability to access the large oceanographic and atmospheric data, as well as Oceanographic Data Distribution and Expansion volume of data which is resident at the Fleet interconnectivity with other tactical support The Naval Environmental Data Network (NEDN) Inti-Submarine Warfare Operations Centers. systems which will become operational at of forces in each respective Area of (4)

(5) Extended yard period overhauls are scheduled for USNS BENT and USNS KANE during FY 1990.

06M, N 3-59

C. Other Program Growth in FY 1990

(1) In an effort to improve the effective utilization of limited Navy efficer and enlisted manpower, a plan has been developed to reduce military staffing in "shore intensive" areas by substituting civilian manpower where possible. This plan includes the replacement of enlisted Data Processing (DP) and Data Systems (DS) Technicians with civilian computer operators at the Fleet Numerical Oceanography Center, Monterey, CA, as well as the replacement of enlisted Aerographer's Mates with civilian Meteorological Forecasters at COMUS Oceanography Detachments.

(2) Additional costs associated with the annual software (operating system) license for the Hydrographic/Oceanographic Data Acquisition System.

(3) Increasing emphasis and effort continues to be placed safety of Anti-Submarine Warfare (ASW) operations, technology as well as tactics and procedures which products which will enhance the effectiveness and additional oceanographic surveys, an expansion of This emphasis is driven by are required for successful execution of surface acoustic data bases with emphasis on data sparse prediction and support initiatives will include information, data and prediction capabilities/ on addressing fleet needs for ocean acoustic oceanographic, hathymetric, hydrographic and specific detailed analyses of the effects of highinterest, and FY90 acoustic changes in active and passive ASW sensor and subsurface ASW efforts. fleet operating areas of systems and sensors.

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Activity Group: Environmental/Prediction Support (continued)

Reconciliation of Increases and Decreases (continued)

on a broad (frequency) range of active and passive shallow water acoustic propagation characteristics Environmental Guides, port and coastal charts and charts and publications for use by the submarine products include special Submarine Tactical Oceanographic Reference and surface forces such as Shallow Water systems and sensors. manuals.

Operations associated with two classified CNO-sponsored for collection of oceanographic and acoustic data, This effort will provide a cost effective method environmental support products, and will enhance the transition of emerging ASW capabilities to cooperative Anti-Submarine Warfare survey and support programs which will begin in FY 1990. will support the production of additional operational use. (4)

(5) Additional hardware maintenance costs associated with oceanographic data processing and analysis systems and components at the Naval Oceanographic Office, the Fleet Numerical Oceanography Center, and the additional shipboard data collection and oceanographic sensing systems as well as Regional Oceanography Centers.

(6) Increased flying hours reflect aircraft out of service in FY 1989 for sensor system upgrade being returned to full service.

OEM, N

- Expansion/Improvement of the capabilities of the Primary oceanographic data to describe the total Navy operating level of accuracy required by weapons/sensor systems, environment, predict environmental conditions to the forecast environmental conditions. It also includes expeditiously analyze and process meteorological and and prepare, disseminate and display platform and weapons system performance prediction based upon This effort is the review, standardization and documentation of operational efficiency and ease of transition to applications programs so as to improve their directed at enhancing Navy capabilities to: Environmental Processing System. planned replacement systems. (C)
- USNS MCDONNELL will be delivered as an operational as well as an increase to the civilian scientific costs support operating costs for USNS MCDONNELL, staff that will be required to carry out at-sea At-sea FY 1990 survey operations/in-house data processing. processing/reduction will be carried out by hydrographic survey vessels in FY 1990. civilian scientists and technicians. data collection and in-house data 8
- Expansion of oceanographic and meteorological support activities at Oceanography support centers, and within the Mobile Environmental Support Teams that atmospheric soundings to address the requirements on-scene forecasting and prediction activities deploy in non-aviation surface combatants and This support includes additional of numerous warfare operations, as well as based on available climatology and actual oceanographic conditions. submarines. (6)

DEM, N

the addition of USNS MAURY to the Ocean Survey Program (10) Additional ship overhaul requirements associated with maintenance to survey suites, equipments and spaces fleet. Yard period overhauls include repairs and

on-board Ocean Survey Program vessels.

293

175

Mini-drifting buoys are being deployed to support routine generation of local scale (high resolution) oceanographic being deployed to fill a critical data deficiency created capabilities in areas in which it is otherwise expensive to operate ship and aircraft survey platforms (e.g. the An initial expense is associated with the In response to the continuing needs of forces operating ourchase of an additional inventory to support program soncbuoy size mini-drifting buoys. Drifting buoys are by the elimination of typhoon reconnaissance aircraft. Arctic and Western Pacific). Drifting buoys are also program has been established to purchase, deploy and monitor Arctic, Air-Sea Interaction Drifting, and being deployed to provide sustained data collection in the Arctic and other remote areas, an integrated expansion based on validated fleet requirements for analyses and forecasts in areas of high ocean expanded oceanographic prediction data. variability. (11)

#### 4. Program Decreases

- One-Time FY 1989 Costs
- Aircraft to include the Airborne Hydrographic (1) Engineering design costs associated with the modification of a uniquely configured RP-3D Survey System in its survey suite.
- (2) Costs of installing an upgraded Sonar Array Survey System on the USNS WYMAN.

-1,525)

# Activity Group: Environmental/Prediction Support (continued)

# R. Reconciliation of Increases and Decreases (continued)

-234	-185	(-102)	-102	190, 483	8,095	(276) 275	) <del></del>	(1,021)	2	(159)	) 60 60	(4,855)	(1, 784)	19,115	(7,020)	2,041
(3) Costs associated with the installation of an Uninterruptible Fower Supply at the Naval Western Oceanography Center.	(4) Installation of GPS receivers on-board six oceanographic survey vessels.	B. Other Program Decreases in FY 1990	(1) Decrease of flying hours in support of USNS Harkness ocean exercises.	5, FY 1990 President's Budget Request	6. Pricing Adjustments	A. Annualization of FY 1990 Direct Pay Raises	lassified	age Board 1 Direct Pay Raises	(1) Classified	(2) Wage Board	(1)	(2) Non-Fuel Tadiset Find Rales	E. Other Pricing Adjustments	7. Program Increases	A. Annualization of FY 1990 Increases	(1) Civilian substitution of meteorological technicians and computer operators for Navy enlisted Aerographer's Mates, Data Processing and Data Systems Technicians.

#### B. FY 1991 One Time Increases

(279)

279

4,979

(1) A major dry-dock overhaul of the USNS HESS is scheduled to be performed in FY 1991. During this overhaul, specific repairs, modifications and improvements to survey systems and associated components will be accomplished.

### C. Other Program Growth in FY 1991

(11,816)

230

181

1,589

- (1) One additional compensable workday.
- (2) Increase in ship overhaul requirements due to the addition of the USNS TANNER in late FY 1989.
- (3) Full year operations and maintenance of the Large Scale Computer which was procured and installed at the Naval Oceanographic Office, Stennis Space Center, MS, for dynamic ocean and ice modelling to support worldwide Naval Operations.
- (4) An expansion of coastal hydrographic data collection in politically accessable areas of the world through the addition of USNS LITTLEHALES to the coastal hydrographic survey fleet. Costs include partial year ship operations and additional civilian scientific staffing to support at-sea surveys and in-house data processing.

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#### Reconciliation of Increases and Decreases (continued) 8

909

1,315

#### 8. Program Decreases

(-1,900)	-412
	<ol> <li>Installation of Airborne Bathymetric System (ABS) accomplished in FY 1990.</li> </ol>
	(ABS)
	System
	Bathymetric
Costs	of Airborne
1990	tion 90.
A. One-Time FY 1990 Costs	installation in FY 1990.
. One	(1)
ac.	

-433

-3,516

(2) Upgrades to the Bathymetric Edit Analysis and Matrix System.

#### Reconciliation of Increases and Decreases (continued) В.

-214		
(3) Costs associated with magnetic data compiliation and	processing to update the World Magnetic Model for	EPOCH Year 1990 and 1995 requirements.

-664
FY 1990.
FΥ
in
accomplished
capabilities
NODDES
10 £
Expansion

(4)

-177	
NS	
NT and USNS	
O USNS BE	1990.
d yard period overhauls to USNS BENT	e performed in FY 1990.
(5) Extended yard	KANE which were performed
(2)	

(-1,616)
991
in FY 1
Decreases in FY 1991
Program
B. Other Program Decre

(1) With the implementation of the Global Positioning	System (GPS) reduced travel and logistical	resources are programmed for the Navigational Aids	(NAVAIDS) detachment supporting hydrographic	SULVEYS

-269

(3)	(3) Global Positioning Satellite will come on line in	0
	eliminating the requirement for H-2 associated	
	flying hours heretofore used in transporting	
	equipment in apport of triangulation	

### 9. FY 1991 President's Budget Request

#### II. Performance Criteria

ENVIPONMENTAL PREDICTION SUPPORT TO STRATEGIC SYSTEMS

PROJECT: BATHYMETRIC SURVEYS

REQUIREMENT/OBJECTIVE: Collect bathymetric (ocean depth, boltom topography) data in Fleet operating areas. Conduct data processing activities ashore. Provide chart quality data to DEA for inclusion in surface, sub-surface navigation and planning chart products. Develof, maintain digital bathymetric data bases.

#### FROJECT EFFORTS:

o Shipboard surveys

FERFORMANCE CRITERIA:	FY 88	FY 89	FY 90	FY 91
FRECISE BATHYMETRIC NAVIGATION ZONE CHARTS (PBNZC) 1.INEAR NAUTICAL MILES OF SURVEY DATA COLLECTED 1.INEAR OF BATHYMETRIC NAVIG. PLAIMING CHART (BNPC)	240	240	240	240
	310000	395000	429000	429000
	48	31	31	31

#### PROJECT: GRAVITY SURVEYS

Collect gravity data in Fleet operating areas, conduct data processing activities ashore to characterize variations in the earth's gravitational force (gravitational deflection, deviations from spherical values, etc.). REQUIREMENT/OBJECTIVE:

#### PROJECT EFFORTS:

- o Shipboard surveys
- Satellite data processing

FY 91	98100 12 1752000 423200
FX 90	98100 12 1752000 <b>4</b> 23200
FY 89	85800 12 1532000 361900
FY 85	134000 9 2110000 312300
BKF WMANCE CRITICAL.	UERTICAL DEFLECTION DATA FOINTS HUMBER OF GRAVITY PRODUCTS UERTICAL DEFLECTION SQUARE MILES FINEAR NAUTICAL MILES OF SURVEY DATA COLLECTED

Performance Criteria (continued)

PROJECT: ASW BGTTOM MAPPING

REQUIREMENT/OBJECTIVE: Collect, analyze and process bathymetric data at sea in support of COMSPAMARSY: COMproject requirements. Maintain digital bathymetric data bases for the compilation of maps worldwide. project requirements.

PROJECT EFFORTS:

Shipboard surveys

FY 89 FY 90 FY 91	36 36 36 36 .25000 25000 25000 .4 16 16
FY 88	36 22000 14
PERFORMANCE CRITERIA:	SURVEY MANUSCRIPTS SURVEY NAUTICAL MILES NUMBER OF SHIP MONTHS OF SURVEY EFFORT

ENVIRONMENTAL PREDICTION SUPPORT TO NAVIGATION AND CHARTING

PROJECT: HYDROGRAPHIC SURVEYS

REQUIREMENT/OBJECTIVE: Collect hydrographic data in politically accessible coastal areas for the production of port, harber, coastal combat and mine warfare charts.

#### PROJECT EFFORTS:

- Shipboard surveys with Navy assets
- Airborne surveys a new initiative
- Alternate survey sources (cooperative efforts with other agencies)
- o Cooperative Programs assist foreign government in establishing a survey capability o Foreign Governments Assisted: Indonesia (FY85-FY89), Somalia (FY85-87 and FY89), East Africa (FY897), North Africa (FY89), Bahamas (FY85/86), Honduras (FY85-FY87), Diego Garcia (FY88), Hid isst (FY89), North Atlantic (FY88), Korea (FY85-FY89), Latin America (FY89)

PERFORMANCE CRITERIA:	F.X. 88	FY 89	FY 90	FY 91
LINEAR NAUTICAL SURVEY MILES	35000	30000	56009	85000
LINEAR NAUTICAL SURVEY MILES - HYCOOP	22000	24000	26030	28000

Performance Criteria (continued)

### FACTORS WHICH INFLUENCE PRODUCTIVITY:

- Poughness/complexity of survey area
- Nishaps (groundings, equipment malfunctions)

#### PROJECT: MAGNETIC SURVEYS

navigation chart products of the Defense Mapping Agency. Maintain the World Magnetic Model, and provide REQUIREMENT/OBJECTIVE: Collect, analyze and process magnetic data for inclusion in marine, air and land an EFOC (time referenced) update to the World Model every five years. Maintain and operate the Dob Geomagnetic Data Library, to include a digital geomagnetic data base.

#### PROJECT EFFORTS:

- Shipboard Surveys
- Airborne Surveys (PROJECT MAGNET)
- Data Collection via an Autonomous Space Probe 000

PERFOPMANCE CRITERIA:	FY 88	FY 89	FY 90	FY 91
LINEAR NAUTICAL MILES OF AEROMAGNETIC DATA COLLECT AFROMAGNETIC DATA PROCESSED (LINE MILES)	<b>24</b> 0000 120000	120000	120000 80000	120000 180000
SATELLITE DATA PROCESSED (LNM) SATELLITE MILES OF SURVEY DATA COLLECTED	0	37100000 74200000	40000000 98000000	15000000

ENVIPONMENTAL PREDICTION SUPPORT TO TACTICAL AND SURVEILLANCE

#### PROJECT: ACCUSTICS

REQUIREMENT/OBJECTIVE: Address Fleet needs for ocean acoustic data and products which enhance the offertiveness of ASW systems and sensors.

- Support Navy's Acoustic Performance Prediction Program. Characterize underwater sound transmission, ambient noise, bottom sound reverberation. 000
  - Support active/passive surveillance sensors; ASW systems.

#### Performance Criteria (continued) III.

PERFORMANCE CRITERIA:	FY 88	FY 89	FY 90	FY 91
ACOUSTIC STUDIES	'n	٣	٣	٣
ADVANCED LIGHTWEIGHT TORPEDO(ALWT) AREA SURVEYS	ო	4	₩,	<del></del>
ASW PREDICTION CHARTS	m	4	4	47
	1	C-1	0	0
-32	m	m	<b>~</b> 1	~
ROTTOM LOSS UPGRADE (BLUG) PRODUCTS	40	4.1	m	æ
AMBIENT NOISE UPGRADE (ANUG) PRODUCTS	12	12	0	0
APP DATA BASE UPDATES		7	4	4
FRONTAL STUDIES	٣	æ	m	m
SONAR ACCUSTIC RESPONSE (SOAR) GRIDS	٣	æ	m	٣
NUMBER OF LOW FREQUENCY ARRAY DATA BASE UPDATES	0	0	H	<b>~</b>
	22	0	<b>O</b>	0
SHEMARINE REFERENCE HANDALS	0	4	4	₹7
SONAR ARRAY CHARACTERIZATION REPORTS	7	0	0	9
STRAITS STUDIES	4	4	4	<b>v</b>
SPECIAL PROBLEM SUPPORT TO SUBMARINES		<b>-</b> -;	m	<b>—</b>
SHALLOW WATER ENVIRONMENTAL GUIDES	0	0		₩

### PROJECT: ENVIRONMENTAL DESCRIPTIONS

REQUIREMENT/OBJECTIVE: Collect oceanographic, geologic and geophysical data for inclusion in data base and other Fleet support products. Manage "Navy Standard" digital data bases such as the Generalized Digital Environmental Model (GDEM) and the Master Oceanographic Observation Data Set (MOODS). Hanage the Air/Sea Interaction Drifting Buoy Program. Prepare special reports and products (such as Environmental Guides, and Oceanographic inputs to Special Operations Intelligence Folders [SOIFs]).

#### PROJECT EFFORTS:

- Shipboard Surveys 000
- Airborne Surveys Drifting Buoy Data Collection

Performance Criteria (continued) 111.

FERFORMANCE CRITERIA:	FY 88	FY 89	FY 90	FY 91
NUMBER OF GEOPHYSICAL SHIP SURVEYS	2	2	7	2
NUMBER OF AIRCRAFT OPERATIONS	2	2	2	2
NUMBER OF SPECIAL REPORTS	2	2	2	2
NUMBER OF SPECIAL SHIP/AIRCRAFF OPERATIONS	2	2	2	2
HUMBER OF MOODS UPDATES	O	m	-	<b>,</b>
NUMBER OF GDEM'S BUILT/UPDATES	0	<b>-</b> -	H	<b></b>
NUMBER OF GEOACOUSTICS PRODUCTS	7	-	<b>t</b>	-
NUMBER OF DATA REPORTS	2	2	2	2
NUMBER OF ENVIRONMENTAL GUIDES	Ą	0	0	0
NUMBER OF ASID BUOY DEPLOYMENTS	H	2	2	2
NUMBER OF ALLIED ASW SURVEYS		<b>+</b> -1	m	m

ENVIPONMENTAL PREDICTION SUPPORT TO TACTICAL AND SURVEILLANCE

FROJECT: MINE WARFARE

PEQUIREMENT/OBJECTIVE: Provide various Navy commands with a wide range of oceanographic information used to support Mine Warfare planning and operations in both deep and shallow water areas worldwide. Prepare specialized products to support Mine Warfare objectives, including:

- Mine Warfare Pilots
  - CAPTOR Guides
- Planning Charts

PROJECT RFFORTS:

- Chipboard Surveys (both Navy and Coast Guard)
  - Aircraft Surveys

III. Performance Criteria (continued)

PERFORMANCE CRITERIA:	CRITERIA:	88 A.J	FY 89	FY 90	FT 91
NUMBER OF SOIF NUMBER OF MINE NUMBER OF CAPTO NUMBER OF MINE NUMBER OF MINE	NUMBER OF SOIF STUDIES NUMBER OF MINE WARFARE SUPPLEMENTS NUMBER OF CAPTOR GUIDES NUMBER OF MINE WARFARE REPORTS NUMBER OF MINE WARFARE PILOTS	& O ≈ O &	16 2 2 7	11 4 0 1 4 5	च च च च का क

PROJECT: OCEANOGRAPHIC SUPPORT TO NAVAL EXERCISE AREAS (NEA) OCEANOGRAPHIC DATA IN SUBMARINE TRIAL AREAS (ODISTA)

Collect Oceanographic, bathymetric and other environmental data in Sulmarine Test/Trial areas. Prepare charts, reports and other products to support test/trial programs. REQUIREMENT/OBJECTIVE:

PERFORMANCE CRITERIA:	FY 88	FY 89	FY 90.	FY 91
WEADONS RANGES CHARTS	0	4	a	ŋ
CHRTRIAL AREA SITES SURVEYED	panel (	3	4	- Ar
WEAPONS RANGES REPORTS	0	4	0	Ö
	2	r-4	H	
SUBTRIAL AREA REPORTS	<b>Η</b>	æ	m	3
ODISTA SITES SURVEYED	2	-	<b>,(</b>	-
WEAPONS RANGES SITES SURVEYED	gand .	0	0	<b>3</b>
ODISTA REPORTS	10	တ	ထ	သ
NUMBER OF TRIDENT/PK REPORTS	2	2	0	
TRIDENT/PK REPORTS	<b></b> -(	<b>∞</b>	ĸ	u'i
SUBTRIAL AREA CHARTS	m		٣	'n

PROJECT: OCEAN MEASUREMENTS PROGRAM

Program. Determine data measurement and processing accuracy standards, develop survey techniques, identify instrumentation needs. Prepare reports, manuals and products to support SSN/SSBN operations. REQUIREMENT/OBJECTIVE: Address the oceanographic/environmental data requirements of the SSBN Securit Program.

Environmental/Prediction Support (continued) Activity Group:

III. Performance Criteria (continued)

#### FROUNCT EFFORTS:

Shipboard Surveys 0 0

Airborne Surveys

FY 89 FY 90 FY 91	400     400     400       8     8     8       4     4     4       3     3     3
FY 88	400 8 4 5
PERFORMANCE CRITERIA:	NUMBER OF SURVEY AIRCRAFT HOURS HUMBER OF PHYSICAL OCEANOGRAPHY AND BIOLOGY REPORT RUMBER OF SURVEY SHIP MONTHS RUMBER OF SUBMARINE TACTICAL (K.EAN REFERENCE MANUAL

## PROJECT: ON-SCENE OCEANOGRAPHIC SYSTEMS SUPPORT

Maintain the Fleet Geophysics Mission Program Library REQUIREMENT/OBJECTIVE: Provide Afficial Aviation forces, other at-sea combatants and ashore occanographic/ASW support centers with a "stand-alone", real-time occanographic and acoustic prediction capability. Support upgrades to deployed systems. Maintain the Fleet Geophysics Mission Program Librar and the Occanographic/Atmospheric Mission Library.

#### SYSTEMS SUPPORTED

- Tartical Environmental Support System (TESS)

- Integrated Carrier Acoustic Prediction System (ICAPS) - Desk-Top/Hand Held Tactical Computers

FY 90 FY 91	50 50 220 220 30 30 470 470
FY 89	50 220 30 465
FY 88	45 30 460
FERFORMANCE CRITERIA:	NUMBER OF ON-SCENE SYSTEM DOCUMENTS NUMBER OF PREDICTION PRODUCTS NUMBER OF ON-SCENE DATA BASES NUMBER OF ON-SCENE SYSTEM SITE USERS

#### SURVEILLANCE SYSTEM SUPPORT PROJ.CT:

Prepare studies, analyses, chart, reports. Conduct employeatory bathymetric/broad area oceanographic surveys; site and reconnaissance bathymetric, oceanographic and acoustic surveys. PEQUIREMENT/OBJECTIVE:

### II. Performance Criteria (continued)

FY 89 FY 90 FY 91	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
F.Y. 88	400
PERFORMANCE CRITERIA:	NUMBER OF SHIP SURVEY MONTES NUMBER OF ENVIRONMENTAL DATA REPORTS NUMBER OF AREAS SURVEYED

#### PROJECT: TACTICAL ANALYSIS

REQUIREMENT/OBJECTIVE: Provide assistance to at-sea forces in planning and executing ASW exercises, with environmental conditions. Define environmental effects on weapons systems and sensors. Provide on-singularing to sensor operators and tacticians. Provide post-exercise reconstruction analysis and "lessons learned" for improvement of tactics. the goal of improving tactics based on full consideration of environmental factors. Analyze and predi

ERFORMANCE CRITERIA:	FY 88	FY 89	FY 90	FY 91
NUMBER OF FLEET EXERCISES SUPPORTED NUMBER OF CONTRIBUTIONS TO NAVAL TACTICAL PUBLICATIONS NUMBER OF RECONSTRUCTION REPORTS	vv w ⊿	ഗന	ഗ ന 🤻	jan rom r

## ENVIRONMENTAL PREDICTION SUPPORT TO TACTICAL AND SURVEILLANCE

#### PROJECT: SPACE OCEANOGRAPHY

Vapor Content, Surface wind speed, Ice edge and age, cloud location, density and movement) through the use of satellite data. Provide mear-real-time oceanographic analysis products to operational forces at se, characteristics (surface/subsurface temperature, location of ocean fronts and eddies, Atmospheric Wate. REQUIREMENT/OBJECTIVE: Automate satellite data analysis procedures. Define oceanographic

FT 91	1206 2200 900
.FY 90	120 2200 900
FY 89	120 2200 900
F.Y. 88	0 1700 650
PERFORMANCE CRITERIA:	NUMBER OF MULTI-CHARREL SEA SURFACE TEMP MSGS NUMBER OF SEA SURFACE TEMP OBSERVA. (SAT IMAGES) NUMBER OF OCEAN FRORTAL MSGS

1. Performance Criteria (continued)

#### FROJECT: ARCTIC WARFARE

predictions for Fleet operations. Nata will be included in on-board tactical weapon and sensor systems and in on-board environmental publications such as Submarine Tactical Oceanographic Reference Manuals. submarines, aircraft, and remote sensing of data from satellites. The goal of the program is to build and PEQUIREMENT/OBJECTIVE: The Arctic program resources support the improved browledge of privironmental/acoustic conditions in the Arctic Region. The program includes data collection from ships, maintain high resolution environmental/acoustic data bases to support high quality acoustic performance

FORMANCE CRITERIA:	RITERIA:	FY 88	FY 89	FY 90	FY 91
HUMBER C	HUMBER OF ACOUSTIC DATA FROCESSING/MODELS DEVELOPED	0	0	2	-
NUMBER C	NUMBER OF LOGISTICS ICE CAMPS SUPPORTED	0	0	7	-
NUMBER C	NUMBER OF OCEAN BUOYS	10	11	18	10
HUMBER C	HUMBER OF AMBIENT NOISE/METEOROLOGICAL BUOYS	10	2	0	0
HUMBER C	NUMBER OF ARCTIC GUIDES PRODUCED	•	<b>****</b> 1	2	~
HUMBER C	UMBER OF SUBMARINE TRACKS PROCESSED	0	10	10	1.0

## ERVIEONMENTAL PREDICTION SUPPORT TO COMMAND, AND CONTROL

# FROJECT: ENVIRONMENTAL PREDICTION (SUPPORT TO SAFETY OF AVIATION/TACTICAL AVIATION)

PRQUIREMENT/OBJECTIVE: Conduct necessary data collection and processing to identify current and predict future meteorological and oceanographic conditions on a local, regional, and global scale to the degree of accuracy required by strategic, tachical and support aircraft forces.

FY 88 FY 90 FY 91	479,896 501,277 <b>520,081 540,751</b> 9,585 10,302 11,296 11,988
FERFORMANCE CRITERIA:	OBSERVATIONS: PUMBER OBSERVATIONS HUMBER OF SURFACE WEATHER OBSERVATIONS

III. Performance Criteria (continued)

	FY 88	FY 89	FY 90	FY 91
ANALYSES AND FURECASTS:				
NUMBER OF LOCAL FORECASTS/WARNINGS	143,235	147,816	152,854	158, 196
NUMBER OF TERMINAL AVIATION FORECASTS	74,839	19,950	82,829	87, 663
NUMBER OF SATELLITE NATA ANALYSES	3,000	3,000	3,000	3,000
NUMBER OF OCEAN ACOUSTICS REPORTS	96,518	103,875	107,675	110,875
NUMBER OF SOUND FOCUSING PREDICTIONS	18,634	18,919	19,100	19,300
AUMBER OF COMPUTER FLIGHT PLANS	166,902	180,294	181,300	181,300
NUMBER OF FLIGHT WEATHER BRIEFINGS ISSUED (DD-175-1)	278,514	287,526	290,046	296, 196
NUMBER OF FLIGHT PACKETS ISSUED	60,654	65,081	71,702	75, 651
NUMBER OF VER FLIGHT BRIEFINGS	1,800	1,800	1,800	1,800

## PROJECT: ENVIRONMENTAL DATA PROCESSING AND DISSEMINATION

REQUIREMENT/OBJECTIVE: Provide, on an operational basis, numerical oceanographic products which address the day-to-day needs of Naval combatants at-sea. Test numerical techniques to solve oceanographic analytical and forecasting problems. Distribute oceanographic and meteorological data and products to assore unitation within the Oceanography Command, to other DoD agencies and to Fleet units at-sea.

ERFONAANCE CRITERIA:	FY 88	FY 89	FY 90	FY 91
NUMBER OF RADIOLOGICAL FALLOUT FORECASTS ISSUED NUMBER OCEAN AREA WIND/SEA FORECASTS/WARNINGS ISSUED NUMBER OF SATELLITE OCEAN THERMAL STRUCTURE ANALYSES	2,486 29,854 787	2,588 32,175 787	2,600 32,875 787	2,600 33,375 787
NUMBER OF TROPICAL ALERTS/BULLETINS	685	685	685	685
NUMBER OF ELECTRO-OPTICS FORECASTS/ANALYSES ISSUED	20, 591	21, 403	21,931	22,066
NUMBER OF CLIMATOLOGYY/ASTRONOMICAL DATA PACKETS ISSUED NUMBER OF SHIP WEATHER PACKETS ISSUED	5,623 51,800 1,800	6,042 57,800 1,800	6,100 59,000 1,800	6, 106 59; 000 1, 300

### III. Ferformance Criteria (continued)

#### PROJECT: FOLAR OCEANOGRAPHY

Support And ic Resupply efforts with accurate predictions of meteorological and ice conditions in the Arctic region. Support Strategic and Tactical surface/subsurface forces with accurate predictions of oceanographic and accurate conditions. Identify/predict polar ice conditions for safety of navigation and tactical effectiveness. REQUIREMENT/OBJECTIVE:

3					
PERFORMANCE CRITERIA:		FY 88	FY 89	FY 90	FY 91
ICE ANALYSES		750	800	875	925
ICE & WEATHER FORE	CASTS	405	407	407	407
ICE ROUTING SERVICES		15	15	20	20
SEA ICE GRAPHICS	) :	96	96	96	96
THEFT EXERCISES SE	SUPPORTED	7	9	12	14
	SILONS	171	890	1200	1200
WARNINGS		746	695	750	750
CLIMATOLOGY REPORTS	ς.	91	83	1.00	87
CNO COMMAND CENTER BRIEFS	BRIEFS	117	156	156	156
SPECIAL PROJECTS 1	ICE MSGS	254	295	254	254
	RECONST	2	*	₹	**
	BIIOY PRED.	56	36	36	36
	CASTS	m	m	m	m
ANNUAL ICE PUBLICATION	TION	m	₩.	<b>₹</b> 7	₹
AIRCPAFT SUPPORT:					
H-2 Operations	Avg. No. Operating Aircraft	2	2	2	ı
H-2 Operations	No. Flying Hours	191	1,193	1,046	ı
P-3 Operations	Avg. No. Operating Aircraft	5	5	'n	5
P-3 Operations	No. Flying Hours	3,191	2,746	2,771	2,811

s Avg. No. Operating Aircraft 2 2		Avg. No. Operating Aircraft 5 5 5	s No. Flying Hours 3,191 2,746 2,771 2,81
H-2 Operations	H-2 Operations	P-3 Operations	P-3 Operations

Activity Group: Environmental/Prediction Support (continued)

IV. Personnel Summary.

FY 1991	1,841	334 1,507	1,171	1,171
FY 1990	1,852	334 1,518	1,156	1,150
FY 1989	1, 333	318 1,615	1,018	1,018
FY 1988	1,791	299	1,054	1,054
End Strength (E/S)	1	Officer Enlisted	Civilian	наги
End Si	A .	। O 🖾	B.	. 0

#### DEPARTMENT OF THE NAVY OPERATION & MAINTENANCE, NAVY EXHIBIT OP-5

Activity Group: U.S. NAVAL OBSERVATORY
Rudget Activity: III - Intelligence and Communications

### Description of Operations Financed

This budget request covers operating costs for the Naval Observatory (NAVOBSY) which observing programs last between seven and ten years. The only two countries doing fundamental positional astronomy are the United States (NAVOBSY) and the Soviet Union provide precise time, for use in navigation and positioning. Typical star and planet observations of and predict the positions of the sun, moon, planets and stars and to is located in Washington, DC. The mission of the Maval Observatory is to make observatories.

Some of the Department Observations are taken at permanent sites in and Fairbanks, AK under memorandums of understanding with the National Science Foundation Washington, DC, Richmond, FL, Flaystaff, AZ and the Black Birch Astronomical Observatory, calculations and predictions, precise guidance in space, precise positioning using time Hew Realand. The NAVOBSY also uses the Radio Astronomical Facilities at Green Bank, WV of Defense (DoD) applications are: calibration of satellite mavigation systems, orbit synchronized systems, secure communications, sun and moon phenomena (rise and set, and MASA for the real-time determination of Universal Time and polar motion. This effort has many applications, both military and civilian. azimuths and altitudes) and earth rotation.

of Time for DoD, the establishment, maintenance and improvement of a clock system of high stability, reliability, and precision is required. NAVOBSY developed the Frecise Time and by communications satellites, and by LASER. The NAVOBSY maintains Precise Time Reference The NAVOBSY sets the Time Standard for DoD and the United States. As single manager portable clocks, by the Global Fositioning System Satellites (which carry MAVOBSY time), Time Interval (PTII) Program to disseminate, distribute and transfer continuous time synchronization on a worldwide basis. This time synchronization is accomplished by stations around the world and monitors all radio navigation systems. Activity Group: U.S. Naval Observatory (continued)

## Description of Operations Financed (continued)

well as special data required by the Navy, Defense Department, other Governmental agencies and the general public. Strategic organizations of DoD are routinely supported. NAVOBSY is the sole source of certified astronomical and timing data for legal and civil use. The NAVOBSY is the only observatory in the U.S. providing fundamental astronomical data and serves as the central source of such data for the government. The NAVOBSY calculates and publishes various astronomical and navigational almanacs as

## II. Financial Summary (Dollars in Thousands).

#### Sub-Activity Group Breakout. ₹.

	Budget B	11,528	1 11,528 11,919			(95)		(62)	19	(1)	(29)	(171)
	Current	10,791	10,791									
FY 1989	Appro- priation	9,807	9,807				ay Raises					
	Amended Pres. Budget	10676	6,907	d Decreases			Annualization of FY 1989 Direct Pay Raises		ises			ents
	FY 1988 Actual	10,249	10,249	Increases an	t Estimate	ments	alization of FY 19	Board	FY 1990 Direct Pay Raises	Wage Board	d Fuel	Industrial Fund Rates Other Pricing Adjustments
		Naval Observatory	al	Reconciliation of Increases and Decreases	FY 1989 Current Estimate	Pricing Adjustments	A. Annualizat	(1) Crass	B. FY 1990 Di	(2) Wage	C. Stock Fund (1) Non-Fuel	D. Industria
		Naval Ol	Total	B. Recon		2. P	A				•	

33

10,751

(128)

## Activity Group: U.S. Naval Observatory (continued)

## P. Reconciliation of Increases and Decreases (continued)

#### 3. Program Increases

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Annualization of FY 1989 Increases
(1) The cost of five additional civilian positions
were assumed in FY 1989 for almanac
functions formerly performed by Her Majesty's
Nautical Almanac Office. U.S. Code requires
publication of these almanacs.

B. One-Time FY 1990 Costs

(1) Procurement of non-OPM items in support of the scheduled FY 1990 construction of a large VLBI telescope in Hawaii.

C. Other Program Growth in FY 1990

(244)

NAVOBSY is tasked to provide rapid service Earth Florida. Additional funding in FY 1990 pays for Interferometry System (VLBI) allowing 40-180 day celescopes in West Virginia, Alaska, Hawaii and systems, navigation and positioning. The main research telescopes belonging to universities, Orientation Data in support of the DOD Global operation and maintenance for existing radio Until FY 1989 NAVOBSY relied on celescopes and maintenance of communications Navy-controlled VLBI network consisting of Positioning System (GIS), other guidance source of data is the Very Long Baseline NASA and NOAA. FY 1990 plans call for a predictions as required for autonomous operation.  $\Xi$ 

(42)

162

82

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FY 1990 President's Budget Request equipment on the market.

more stringent than in any other system and the

system requires the use of the most modern

requirements for continued precision are much facility for precise time and frequency, the

available. Since this (and the backup Master Clock in Florida) is the only DOD calibration

standards and Cesium clocks. The one nanosecond

replacement of highly sensitive equipment by

state-of-the-art systems as they become

real-time capability requires continuing

This upgrade replaces measuring systems,

puts in fiber optics links, and interconnects

Hydrogen-Masers, Mercury stored-ion frequency

improved PTTI data from the Global Positioning

System (GPS), other systems, and Navy and DOD

The Master Clock is being upgraded in response

(2)

Reconciliation of Increases and Decreases (continued)

<u>а</u>

Activity Group: U.S. Naval Observatory (continued)

to real-time operational requirements for

#### Pricing Adjustments

<b>6</b> 0						
Raise						
Pay						res
lirect						sct Hi
1990			aises			1 Dire
Annualization of FY 1990 Direct Pay Raises	(I) Classified	Wage Board	FY 1991 Direct Pay Raises	(1) Classified	(2) Wage Board	Foreign Nationa
Annu	Ξ	(2)	FY 1	(1)	(2)	(3)
<b>«</b> C			æ.			

(32) 29 3 (107) 104

(13) (169)

Other Picing Adjustments Industrial Fund Rates

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(continued)	
Decreases	
and	
Increases	
Ċ	
Peronciliation of Increases and Decreases (continued	
Œ	

117

(117)	20	76		(-41)	-47
6. Program Increases A. Other Program Growth in FY 1991	(1) One additional compensable workday.	determine the optimum permanent location) will be conducted in FY. 1991 to support the permanent installation of an optical interferometer on a remote mountain top in the Western U.S. The optical interferometer will improve the positional accuracy of the brighter navigation stars by a factor of ten or more, as needed by space guidance systems and autonomous systems operations throughout DoD. This telescope is planned to be operational in late 1993.	7. Program Decreases	A. One-time FY 1990 costs	(1) FY 1990 purchase of materials to support construction of a VLBI telescope.

-47

11,919

FY 1991 President's Budget Request

ъ • Activity Group: U.S. Navai Observatory (continued)

III. Performance Criteria

PROJECT: TIME SERVICE

Act as DOD PTTI manager (DOD Directive 5160.51). REQUIREMENT/OBJECTIVE: Provide precise time and time interval (PTTI), earth rotation data and time Satisfy short and long term accuracy requirements from Navy and other DOD components. synchronization services. Maintain DOD Master Clock.

PROJECT EFFORTS: Monitor all DOD timed systems around the world. Disseminate timing data via satellit computer and by mail. Maintain and upgrade DOD Master Clock and time monitoring systems. Develop capability for 180 day predictions of earth rotation parameters. Provide calibration and operator training for DOD timed systems. Establish DOD PTTI.

#### PERFORMANCE CRITERIA:

- -Real-time Master Clock access capability of 1 nanosecond (ns) per day.
- -Reference data on earth rotation with required accuracy and timeliness.
  - -Number of customers serviced with calibration and training.
    - -New Services introduced.
- -Florida Master Clock back-up facility fully operational.
  - Earth rotation VLBI facility fully operational.

#### PROJECT: ASTROMETRY

Measure with appropriate telescopes, analyze and tabulate positions of stars, sun, moon and planets to required accuracy. Provide needed star position data and inertial reference frame to Navy and other DOD labs and systems. Improve accuracy and timeliness of data in response to system designer's requirements. REQUIREMENTS/OBJECTIVE:

PROJECT EFFORTS: Observations with six telescopes in Washington, DC, Flagstaff, AZ and Black Birch, Nar Zealand. Improve accuracy and automation of telescopes. Conduct 10-year long observing series. Train data users in DOD in use of stellar references.

Activity Group: U.S. Maval Observatory (continued)

Ferformance Criteria (continued)

#### PROJECT: NAUTICAL ALMANAC

request for Navy and other DOD units. Advise DOD and other government agencies of astronomical phenomena. Calculate, tabulate, and publish positions of sun, moon, planets and navigation Improve accuracy of calculations and tabular data in response to requirements. Make calculations on Sunrise/sunset, solar and lunar illustration tables, circulars, bulletins, and other publications. Publish Astronomical, Nautiral and Air Almanacs, Almanac for Computers, Floppy Almanac, REQUIREMENT/OBJECTIVE:

PROJECT EFFORTS: Annual calculation, preparation, proofing and distribution of Almanacs. Calculation of background theories and tabular material. Daily circulation of special tables.

#### PERFORMANCE CRITERIA:

- -Timely publication and distribution of Almanacs.
- -Number of special tables in support of DOD operations.
  - -Number of customer queries answered.
- -Number of planetary data collected.
- -Number of new theoretical and calculational developments.

#### PROJECT: FLAGSTAFF STATION

REQUIREMENT/OBJECTIVE: Perform research in application of new technology to astrometric accuracy improvement. Observe faint objects for calibration. Maintain and improve expensive station telescopes, buildings, hardware and software.

Remain in forefront of scientific endeavor to enable NAVOBSY operations to satisfy modern technology requirements. PROJECT EFFORTS:

#### PERFORMANCE CRITERIA:

- -Number of faint star observations.
- -Accuracy of star and planetary satellite data.
  - Number of new equipment brought on line.

Activity Group: U.S. Naval Observatory (continued)

### III. Performance Criteria (continued)

#### PROJECT: ADMINISTRATION

REQUIREMENT/OBJECTIVE: Perform support services including control of classified material, records management and files, personnel, planning and direction of fiscal functions, operation of library.

PROJECT EFFORTS: Keep HAVOBSY in good operating condition.

#### PERFORMANCE CRITERIA:

-Satisfy Navy regulations and requirements.

#### IV. Personnel Summary.

	EY 1988	FY 1989	FY 1990	FY 1991
End Strength (E/S)	(E/S)			
A. Military		111	19	30
Officer Enlisted			111 8	. 22
B. Civilian	12	·	•	1
USDH FNDH	120	129	129	129

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: Maintenance of Real Property
Pudged Activity: III - Intelligence and Communications

1. Description of Operations Financed.

Haval Observatory and other ancillary activities to permit assigned forces and tenants to perform structures, grounds and utility systems required at Naval Oceanography Command facilities, Naval Security and Investigative Command activities, Naval Telecommunications Command facilities, the This program provides maintenance, repair and minor construction of all buildings, their mission.

The major elements of this program are:

- Facilities Maintenance finances scheduled, day-to-day recurring maintenance, and emergency service work needed to preserve facilities. 0
- Major Repairs provides major repairs necessary to bring existing facilities into adequate condition to support assigned missions. 0
- Minor Construction finances the erection, installation or assembly of real property facilities; the addition, extension alteration, conversion or replacement of existing real property facilities; the relocation of real property facilities; and the installation of equipment which becomes part of a facility. 0

II. Financial Summary (Dollars in Thousands).

### Sub-Activity Group Breakout.

	FY 1991 Budget Reguest	21,164 3,879 3,209	28,252
	FY 1990 Budget Request	20,852 3,822 3,111	27,785
	Current Estimate	19,200 3,293 3,193	25,686
FY 1989	Appro- priation	16,988 3,471 3,191	23,650
	Amended Pres. Budget	16,994 3,471 3,984	24,499
	FY 1988 Actual	17,966 3,365 3,387	24,718
		Facilities Maintenance Major Repair Projects Minor Construction	Total

## B. Reconciliation of Increases and Decreases.

1, 17

\$25, 036

## Activity Group: Maintenance of Real Property (continued)

## R. Reconciliation of Increases and Decreases (continued)

3. Functional Program Transfers		234
A. Transfers In	(534)	
(1) Intra-Appropriation	234	
<ul><li>(a) Decentralize the payment for hazardous waste disposal from BA-7 Field Operations, because DLA can now track charges at the activity level.</li></ul>		
4. Program Increases		1,970
A. Other Program Growth in FY 1990	(1,970)	
(1) Increase for farility projects deferred from FY 1989.	1,970	
5. Program Decreases		-1,852
A. One-Time FY 1989 Costs	(-820)	
(1) Large Scale Computer installation and site preparation at the Naval Oceanographic Office.	-200	
(2) Decrease for FY 1989 foreign currency increase for Australia.	-620	
B. Other Program Decreases in FY 1990	(-1,032)	
(1) Decreases in materials, supplies and equipment purchased in support of facilities maintenance.	-57	
(2) Estimated net savings from CA studies and Efficiency Reviews.	-120	
(3) Reduction in Physical Security Projects to meet funding levels.	-255	
6. FY 1990 President's Budget Request		\$27,785

7. Pricing Adjustments

	¥.	Annualization of FY 1990 Direct Pay Raises	(55)
		(1) Classified	;
		(2) Wage Board	
		(3) Foreign National Direct	<b>n</b> [
	8	FY 1991 Direct Pay Raises	(197)
		(1) Classified	ထ
		(2) Wage Board	21
		(3) Foreign National Direct	138
	ئ	Stock Fund	(27)
	;	(1) Non-Euel	7.1
	_	Industrial Fund Rates	(284)
	:	FN Indirect Rive	(158)
	6	Other Pricing Adjustments	(300)
æ	Pro	Program Increases	
	ed.	A. Other Program Growth in FY 1991	(31)
		(I) One additional CIVPERS workday.	31
9.		Program Decreases	

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(-585)

-80

-325

-180

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10. FY 1991 President's Budget Request

(3) Reduction in physical security projects to meet funding levels.

(2) Deferral of major repair projects.

(1) Net savings estimated from scheduled CA studies and implementation of MEOs.

A. Other Program Growth in FY 1991

\$ .8, 52

Activity Group: Maintenance of Real Property (continued)

- 1	161. Performance Criteria.	FY 1988	FY 1989	FY 1990	FY 1991
	Mainterance of Real Property Backlog, Maint/Repair (\$000) Total Buildings (KSF)	12,077 12,732	14,273 12,702	17,196 12,705	20, 379 12, 705
>	Personnel Summary.	FY 1988	FY 1989	FY 1990	FY 1991
	A. Military	<del>26</del>	63	28	28
	Officer Enlisted	55	1 62	1 &	288
	R. Civilian	314	284	265	248
	USDH FNDH FNI H	146 96 72	116 93 75	104 89 72	87 89 72

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: Base Operations
Budget Activity: III - Intelligence and Communications

. Description of Operations Financed.

Command facilities, Naval Security and Investigative Command activities, Naval Telecommunications Command facilities, the Naval Observatory, and other ancillary activities to permit assigned forces and tenanta to This program group provides the base support services and material required for Naval Oceanography perform their mission.

The major elements of this program are:

- Base Communications Includes costs for administrative telephones, telecommunications centers, industrial security networks, and paging networks. O
- plants, purchased steam and hot water, heat plants, utility distribution systems, waste systems, air Utility Operations - Includes operating expenses for purchased electricity, electricity generating conditioning and refrigeration plants. 0
- Personnel Operations Support required for personnel related functions including expenses for: 0
- Bachelor Housing Operations and Furnishings provides support for the operation of barracks and the purchase and maintenance of personnel support equipment related to this housing.
- Other Personnel Support provides for mess halls, sales activities, laundry and dry cleaning facilities.
- Morale Welfare and Recreation provides authorized appropriated fund support for shore based recreation activities.
- Station Hospitals, Medical and Dental Clinics direct and indirect health are costs for Health Care Facilities not under the financial control of the Navy Medical Command.
- Human Goals provides support for programs which focus on improving organizational and individed. effectiveness and the administrative support of the Alcohol and Drug programs.

Activity Group: Base Operations (continued)

## 1. Prscription of Operations Financed (continued)

- Base Operations Mission Support for those Base Operations functions which are required in direct support of the mission of the base. For example, Fleet Training Support, Logistics Support, etc. Expenses are included for the following functions:
- servicing facilities. Additionally, waterfront operations such as handling incoming and outgoing procurement, receipt, storage and issue of bulk liquid fuel, including operating aircraft fuel Retail Supply Operations - In addition to standard supply functions, this item includes the cargo and loading/unloading live ammunition onto and from combatant vessels are included
- \* Installation Equipment provides for maintenance of major shore based equipment craft, construction equipment (non-deployable), weapons, electronic engineering, and fleet moorings. rvice and miscellaneous Maintena electro: includi
- Other Base Services provides for the maintenance and operation of vehicles/other transportation equipment, port services (includes navigational assistance to ships, operation of service craft, degaussing operations, and oil spillage cleanup).
- Base Operations Ownership Support required at shore bases regardless of type of mission being Expenses are included for the performed which must be sustained to have a functioning base. following functions:
- services, refuse/garbage collection and disposal, snow removal, rental and leasing of real property, and ire protection and firefighting for Naval activities and their tenants. Other Engineering Support - Public Works Department Administration, engineering services, custodial
  - Administration provides support related to financial/resource management, civilian manpower management, and maintaining military personnel records.
- Automated Data Processing provides analysis, programming, equipment rental, operations and maintenance, contractual services and supplies.
- Mazardous Waste Material Mandling includes personnel, supplies and training associated with the identification and disposal of hazardous wastes.
- Audiovisual provides supplies and services required for audiovisual support.

Description of Operations Financed (continued)

- Physical Security - provides shore base physical security.

## II. Financial Summary (Dollars in Thousands).

#### Sub-Activity Group Breakout. A.

FY 1991 Budget Request	8, 107 38, 932 4, 964 12, 252 33, 139	97,394
FY 1990 Budget Request	7,860 40,355 4,755 11,801 31,951	96,722
Current	7,120 38,630 4,474 11,698 31,563	93,455
FY 1989 Appro-	6, 386 37, 617 4, 068 11, 937 30, 498	90,566
Amended Pres. Budget	6, 426 37, 634 5, 068 12, 190 30, 513	91,831
FY 1988 Actual	7,520 39,395 5,197 12,406 31,139	95, 657
	Base Communications Utility Operations Personnel Operations Base Ops, Mission Ownership Operations	Total, Base Operations

#### Reconciliation of Increases and Decreases. ια

\$93,405	9. 9.45	ises (248) 99 80 69
1. FY 1989 Current Estimate	2. Pricing Adjustments	A. Annualization of FY 1988 Direct Pay Raises (1) Classified (2) Wage Board (3) Foreign National Direct

## R. Reconciliation of Increases and Decreases (continued)

(655) 240 37 378 (-620) -621 1 (555) (382) (1,510)	(065)	.3, (590)	(-30)	-12 ) (-12)	-18 (-18) te DoD
B. FY 1989 Direct Pay Raise (1) Classified (2) Wage Board (3) Foreign National Direct C. Stock Fund (1) Fuel (2) Non-Fuel D. Industrial Fund Rates E. FN Indirect F. Foreign Currency Adjustments G. Other Pricing Adjustments	Functional Program Transfers A. Transfers In	<ol> <li>Intra-Appropriation         <ul> <li>(a) Transfer of Defense Data Network (DDN) resources from BA-3, Leased Communications to individual users to encourage savings by making users directly responsible for paying for their own DDN usage.</li> </ul> </li> </ol>	B. Transfers Out	<ol> <li>Intra-Appropriation</li> <li>SLUC funds to rent commercially leased space realigned to BA-9, Base Operations Support, for direct payment to General Services Administration Federal Building Fund.</li> </ol>	(2) Inter-Appropriation (a) Transfer to the O&M, Army appropriation to support the Dob Defense Systems Management College, which will oversee the Dob education and training program for the acquisition workforce.
	<del>ب</del>				

560

## B. Reconciliation of Increases and Decreases (continued,

4. Program Increases		1,039
A. Other Program Growth in FY 1989	(1,039)	
(1) Increase in utilities due to new facilities and computers	nputers. 191	
(2) Increased maintenance support for new computers.	19	
	361	
(4) Increase for an information system computer security risk assessment and to eliminate vulnerabilities.	ty risk 426	
5. Progrem Decreases		3, : 3
	(36'6-)	_
<ol> <li>Decrease reflects reduction in energy utilization through energy conservation.</li> </ol>	through -1,027	
(2) Net savings estimated from CA studies and Efficiency Reviews	cy Reviews -616	
(3) Reduction in purchased equipment, supplies and services.	vices2,315	
6. FY 1990 President's Budget Request		\$96, 1.2
7. Pricing Adjustments		3,530
A. Annualization of FY 1990 Direct Pay Raises (1) Classified (2) Wage Board (3) Foreign National Direct	(201) 87 36 78	<b>-</b>

## R. Reconciliation of Increases and Decreases (continued)

(799) 366 49 384 (244) 211 33 (470) (449)	219	(219)	17 119	-3,077 (-3,077) -2,538	-375 -164 \$97,394
B. FY 1991 Direct Pay Paise (1) Classified (2) Wage Board (3) Foreign National Direct C. Stock Fund (1) Fuel (2) Non-Fuel D. Industrial Fund Rates E. FN Indirect		8. Program increases A. Other Program Growth in FY 1991	<ol> <li>Increases in utilities due to new facilities and new computers.</li> <li>Increased maintenance support for new computers.</li> <li>Increased maintenance support for new computers.</li> </ol>	9. Program Decreases A. Other Program Decreases in FY 1991 A. Other Program Decreases in FY 1991	energy conservation.  (2) Reduction in purchased material, supplies and services.  (3) Net savings estimated for CA studies and Efficiency Reviews.  10. FY 1991 President's Budget Request

Activity Group: Base Operations (continued)

Performance Criteria.	FY 1988.	FY 1989	FY 1990	FY 1991
Operations of Utilities Total Energy Consumed (MBTU's) Total Non-Energy Consumed (000 Gals)	5, 288, 947	5,252,308	5,277,940	5, 302, 445
	883, 904	899,346	899,364	898, 994
Traffic	15,868	15,866	15,886	15, 866
	8,011	7,839	7,841	8, 021
	155,495	155,501	155,479	155, 479
	393	386	405	415
	84	84	84	84
	1,315	1,315	1,315	1,315
	3,570	3,253	3,154	3,278
	11,461	11,340	11,246	11,157
	8,433	8,312	8,218	8,129
	3,028	3,028	3,028	3,028
	1,234	835	1, 196	1,271
	20,697	20,576	20, 482	20,393
	8,433	8,312	8, 218	8,129
	12,264	12,264	12, 264	12,264

FY 1991	4,466 148 213 226	599 7,187 1,756 1,009 747	14,224 15,936 15,936 85 49 36 2,979	FY 1991	1,162 1,008 1,208 702 318 188
FY 1990	4,321 148 213 226	569 6,911 1,756 1,009	13,779 15,314 85 49 36 2,858	FY 1990	1,184 1,030 1,208 702 318 188
FY 1989	4,334 118 213 226	461 6, 903 1, 756 1, 009	14,264 14,507 85 49 36 2,792	FY 1989	1,221 1,070 1,205 724 298 183
FY 1988	4, 422 148 183 228	562 7,422 1,758 1,032 726	13, 970 14, 881 85 49 36 2, 288	FY 1988	1,166 1,003 1,003 1,247 732 320 195
Activity Group: Base Operations (continued)	Base OperationsMission Retail Supply Oper (\$000) Line Items Carried (000) Receipts (006) Issues (000)	Maint of Instal Equip (\$000) Other Base Services (\$000) No. of Motor Vehicles, Total (Owned) (Leased)	Ownership Operations Other Engineering Sup (\$000) Administration (\$000) Number of Bases, Total (CONUS) (O/S) Physical Security (\$000)	IV. Personnel Summary.	A. Military Officer Enlisted B. Civilian USDH FNDH FNDH

1-4-1

STAMBLY OF REQUIREMENTS BY ACTIVITY COOR

Budget Activity 4: Airlift and Sealift

1	Personnel E/S O6H, N Mil Civ Funding	478,570	478,570
FT 199	nel E/ Civ	114 395	395
	Person Mil	114	114
	Personnel R/S OCM, W	458, 121	458, 121
FY 1990	nel R/S Civ	<b>\$</b> 0	404
-) i	Person	114	114
	Personnel E/S Offin	546, 523	546, 573
FY 1989	nel E/S	426	426
_	Person	154	154
-	Personnel E/S OGM, H	520,859	520,859
FY 1988	ne1 E/s	52 E	425
	Person	Mr.1 152	152
		Sealift Prepositioning/Surge	<b>د</b>
		Seal	TOTAL

#### Department of the Navy Operation and Maintenance, Navy

Rudget Activity: IV Airlift and Sealift (SUMMARY)

### 1. Description of Operations Financed.

which carries equipment, POL, and all other cargo required to support a Marine Amphibious Brigade (MAB) for The Sealift Prepositioning and Surge program provides the worldwide sealift capability to deploy combat forces and supporting material and cargo that may be required to meet national contingency objectives. The program is defined in two major catagories, Sealift Prepositioning and Sealift Surge. Sealift Frepositioning Ships (PREPO), which carry selected equipment, Prepositioning includes forward deployed Frepositioning Ships (PREPO), which carry selected equipment, munitions and supplies for all U.S. Armed Services. In FY 1990, 9 of the 12 total PREPO ships previously funded by the Navy within this Budget Activity will be transferred to the cognizant user service (Army-6, funded by the Navy within this Budget Activity will be transferred to the cognizant user service (Army-6, funded by the 13 Maritime Prepositioning Ships (MPS) are divided into 3 operating squadrons, each of Air Force-3). The 13 Maritime Prepositioning Ships 30 days of combat operations.

The Sealift Surge program includes several efforts which collectively provide the sealift capability to operations locations. Movement of the pre-designated Army divisions will be accomplished by Fast Sealift Ships (FSS/TAKR). Two hospital ships (TAH), delivered during FY 1987, provide the ability to conduct enload, transport and discharge troops, equipment, POL, and cargo from the U.S. to worldwide combat casualty medical treatment in areas immediately adjacent to combat operations.

sealift mission. MSC also serves as the contracting agent for ship charters for the Department of Defense. The Military Sealift Command (MSC), an integral part of the sealift program, moved from industrial wing to direct funding in FY 1988. Operations funded include engineering and technical support for the

acquiring of additional ships, as well all ancillary costs associated with the management of the Ready Reserve Fleet. Funds needed to accomplish these functions are appropriated to the Maritime Administration. In FY 1989 funding responsibility for maintaining the Ready Reserve Fleet (RRF) was transferred to the Maritime Administration (MARAD) in the Department of Transportation. This responsibility includes the All available audit savings have been incorporated into the following budget estimates.

II. Financial Summary (Dollars in Thousands).

#### A. Activity Group Breakout:

					FV 1589			
			FY 1988 Actual	Amended Pres. Budget	Appro- priation	Current Estimate	FY 1990 Budget Request	FY 1991 Budget Request
TOTAL-Activity Group	vity	Group	520,859	546, 629	546, 198	549,523	458,121	478,570
8	Rec	Reconciliation of Increases and Decreases.	reases and D	ecreases.				Amount
	1.	FY 1989 Amended President's Budget Request	resident's B	udget Reques	۳٠			\$340,029
	2.	Congressional Adjustments A. ADP Systems B. A-76 Savings	justments			, ,	-306 -125	-431
			ated					546, 198
	₹.	Pricing Adjustments A. FY 1989 2.1% Pay Raise 1) Classified B. Industrial Fund Rates	nts Pay Raise ed und Rates				(291) 291 903	1,194
	vn·	Prog	ram Increases Sealift Prepositioning/Surge	urge		<b>H</b>	13,212	13,212
	9	Prog	ram Decreases Sealift Prepositioning/Surge	urge		Ť	-14,081 `	100 4-1-

mate \$547,117	FY 1989 Pay Raise (51)  ay Raise (430)  430  (-24)  Rates 1,659	ransfers -79,602	12,683 12,683	-i0,868	Pudget Request	26,281 FY 1990 Pay Raise (104) 104 104 104 104 119 131 31
FY 1989 Current Estimate	Pricing Adjustments A. Annualization of FY 1989 Pay Raise 1) Classified B. FY 1990 Direct Fay Raise 1) Classified C. Stock Fund 1) Non-Fuel D. Industrial Fund Rates E. Other Pricing Adjustments	Functional Program Transfers A. Sealift Prepositioning/Surge	Program Increases A. Sealift Prepositioning/Surge	Program Decreases A. Sealift Prepositioning/Surge	FY 1990 President's Rudget Request	Pricing Adjustments A. Annualization of FY 1990 Pay Raise 1) Classified B. FY 1991 Direct Fay Raise 1; Classified C. Stock Fund 1) Non-Fuel

	E. Other Pricing Adjustments	1,380	
13.	Functional Program Transfers A. Sealift Prepositioning/Surge	83	
4.	14. Program Increases	8,552 8,552	
.51	15. Program Decreases A. Sealift Prepositioning/Surge	-8,447	
16.	16. FY 1990 President's Budget Request	\$478,570	_

### Department of the Navy Operation and Maintenance, Navy

Activity Group: Sealift Prepositioning and Surge Budget Activity. IV Airlift and Sealift

### 1. Description of Operations Financed.

which carries equipment, POL, and all other cargo required to support a Marine Amphibious Brigade (MAB) for The Sealift Prepositioning and Surge program provides the worldwide sealift capability to deploy combat Air Force-3). The 13 Maritime Propositioning Ships (MPS) are divided into 3 operating squadrons, each of munitions and supplies for all U.S. Armed Services. In FY 1990, 9 of the 12 total PREPO ships previously funded by the Navy within this Budget Activity will be transferred to the cognizant user service (Army-6, forces and supporting material and cargo that may be required to meet national contingency objectives. Prepositioning includes forward deployed Prepositioning Ships (PREFU), which carry selected equipment, program is defined in two major categories, Sealift Prepositioning and Sealift Surge. Sealift 30 days of combat operations.

The Sealift Surge program includes several efforts which collectively provide the sealift capability to operations locations. Novement of the pre-designated Army divisions will be accomplished by Fast Sealift Ships (FSS/TARR). Two hospital ships (TAH), delivered during FY 1987, provide the ability to conduct onload, transport and discharge troops, equipment, POL, and cargo from the U.S. to worldwide combat casualty medical treatment in areas immediately adjacent to combat operations.

sealift mission. MSC also serves as the contracting agent for ship charters for the Department of Defense. The Military Sealift Command (MSC), an integral part of the sealift program, moved from industrial funding to direct funding in F7 1988. Operations funded include enginearing and technical support for the

Reserve Fleet. Funds needed to accomplish these functions are appropriated to the Maritime Administration. In FY 1989 funding responsibility for maintaining the Ready Reserve Fleet (RRF) was transferred to the Maritime Administration (MARAD) in the Department of Transportation. This responsibility includes the acquiring of additional ships, as well all ancillary costs associated with the manayement of the Ready

11. Financial Sumary (Pollars in Thousands).

### A. Sub-Activity Group Breakout:

FY 1991 Budget Request 370, 119 69, 221 39, 230	THICK!	546,523	-10,615	709,61
FY 1990 Budget Request 357,303 62,841 37,977	171 100		(51) 51 (430) 430 (-24)	(-12,731) (1,659) (1,659) (-79,602) -102
Current Estimate 451,489 56,702 38,332	540 <b>,</b> 523			(-12 (1) (1) (SLUC),
Appro- priation 443, 789 52,760 49,649	546, 198		y Rōise	Jser Charges
Amerded Pres. Burget 443, 789 52, 548 49, 892	546, 629	Decreases.	1989 4.1% Pa ay Raise	s i idard hevel t
Actual 357,298 128,964 34,597	520, 859	Reconciliation of Increases and Decreases.  1. FY 1989 Current Estimate	Pricing Adjustments  A. Annualization of the FY 1989 4.1% Pay Raise  1) Classinied FY 1990 Pay Raise  B. FY 1990 Direct Pay Raise  1) Classified  C. Stock Fund	1) Non-Fuei D. Industrial Fund Rates E. Other Pricing Adjustments Functional Program 'fransfers A. Transfers-Ouc 1) intra-Appropriation a) Transfer of Standard Level User Charges (SLUC),
Prepositioning Forces Sealift Swyge MSC Headqwaiters	10 FAL-Activity Group	B. Reconciliativ	2. Pricing B. Annumber 11 B. FY 1 C. Stoc.	1) D. Indu E. Othe 3. Function A. Tran 1)

Activity	
(Rudget	spaces.
to the Federal Building Fund (Rudget Activity	9) for accupation of leased spaces.
the	for
to	ઈ

 2) Inter-Appropriation	(-79,500)
b) Transfer of nine (9) Prepositioning force	000161
ships to the cognizant user service (aim.) of Air Force-3).	

12,683

(100)	(12, 583) 5, 173	246	3,095	3,174	ing 895
Program Increases In FY 1990 A. One-Time FY 1990 Costs 1) Increase for modifications to MPS ships not recoverable through ship per diem rates.	B. Other Program Growth  1) Increase in per diem days for Prepositioning Force Ships by 16 days and the annualization of increased fixed operating costs of the East	Sealift Ships (FSS).  2) Increase provides for the maintenance and storage of the portion of the seasheds received in FY 1990 which were procured in FY 1989. The delivery of the seasheds will be phased over two years (FY	1990 and FV 1991).  3) increase provides for the required engineering modifications and installation of an Offshore	Petroleum Discharge System (OPDS) on an KKF SHIP.  4) Increase in NSF Supplies/Materials and Equipment support for the MPS Navy Support Equipment and Afloat Prepositioning Force (APF) Basic	Maintenance Cycle. 5) Increase in contract costs associated with engineering efforts geared to improving overall sealift operations and integration with other services.

5.

(cont'd,

	83	8, 552
450 (31) (18, 296) (1, 380)	(83) is 93	(1, 519) 73 1, 545 1, 545 (6, 933) (6, 933) 3, 56¢ 3, 56¢ 1, 330
1) Classified C. Stock Fund 1) Non-Fuel D. Industrial Fund Rates E. Other Pricing Adjustments	<ul> <li>Functional Transfers</li> <li>A. Transfers-In</li> <li>1) Realignment from NAVTELCOM, Budget Activity 3 of funds for installation/subscriber costs associated with Defense Data Network.</li> </ul>	A. One-Time Program Growth in FY 1:91  A. One-Time Program Growth in FY 1:91  i) Increase provides for one additional paid day.  2) Increase provides for the exercise activation of the two T-AVBs.  B. Other Program Growth  1) Increase provides additional maintenance of seasheds procured in FY 1989 and delivered in FY 1990.  2) Increase provides for the printing of MSC Headquarters major instructions and directives.  3) Increase reflects installation of a modular fuel unit and a cargo delivery system on an RRF vessel and the required marine architecture support for the installations on the vessel.  4) Biennial Maintenance Cycle contract on NSE equipment support for MPS Navy Support Equipment and APF Basic Maintenance Cycle related efforts and Exercises.
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10.

\$478,570

FY 1991 Current Estimate

11.

Activity Group: Sealift Prepositioning/Surge (cont'd)

111.	Per	III. Performance Criteria.	FY 1988	FY 1989	FY 1990	FY 1991
	•	(# of ships/\$000)				
	1.	<ol> <li>Prepositioning Forces (PREPO)</li> </ol>	12/92,561	12/120,095	3/21,955	3/21,937
	2.	<ol> <li>Maritime Prepositioning Ships (MPS)</li> </ol>	13/252,174	13/311,960	13/321,474	13/332, 625
	3.	<ol> <li>Ready Reserve Fleet (RRF)</li> </ol>	91/76,280	RRF transfer	RRF transferred to MARAD in FY 1989	FY 1989
	4.	Fast Sealift Ships (FSS/TAKR)	8/19,524	8/30,183	8/33,872	8/40,588
	S.	T-AVB	2/2,900	2/2,363	2/2,445	2/4,067
	9	6. Hospital Ships (TAH)	2/6,785	2/9,231	2/10,369	2/10,509

#### IV. Personnel Summary:

FY 1991	158 44 114	<b>395</b>
FY 1990	161 47 114	404
FY 1989	154 48 106	<b>426</b> 426
FY 1988	$\frac{152}{41}$	<b>425</b>
and Strength (E/S)	Military Officer Enlisted	Civilian USDH
Rnd	Ä	æ